REPORT RESUMES

ED 014 899 EM 005 622

TELECOURSE CATALOG 1967.

NATIONAL CENTER FOR SCHOOL AND COLL. TELEVISION

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DESCRIPTORS- INSTRUCTIONAL TELEVISION, *COURSE DESCRIPTIONS, *CATALOGS, *ELEMENTARY EDUCATION, *SECONDARY EDUCATION, INSERVICE TEACHER EDUCATION

THIS CATALOG PROVIDES INFORMATION ABOUT TELECOURSES NOW AVAILABLE FROM THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION (NCSCT). THE CATALOG ORGANIZES AVAILABLE TELECOURSES BY GRADE LEVEL, AND HAS A SUBJECT INDEX FOR CROSS REFERENCE. COPIES OF THE CATALOG ARE AVAILABLE FREE OF CHARGE FROM NCSCT, BOX A, BLOOMINGTON, INDIANA, 47401. (MS)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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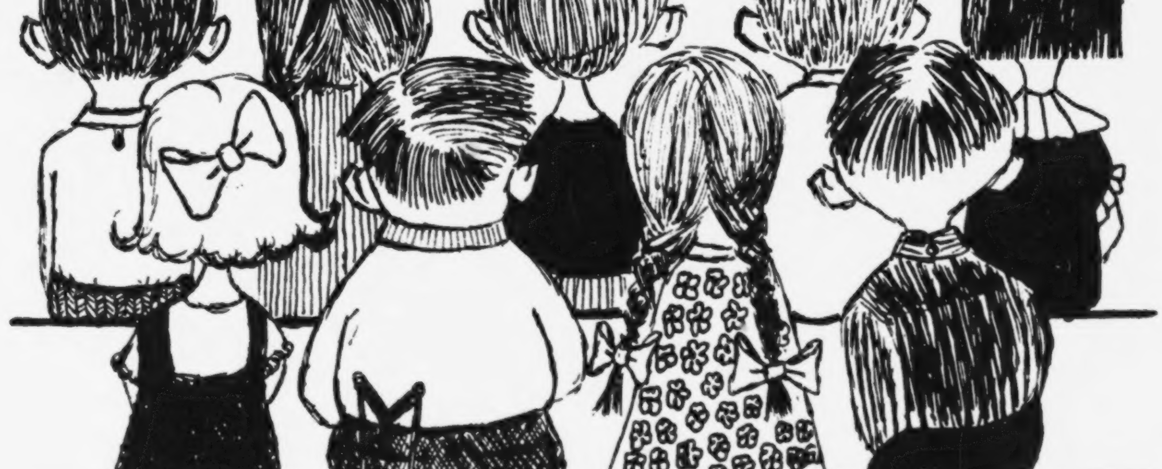
TELECOURSE CATALOG 1967

National Center
for
School and College Television

NSCT



EM 005 622

preview material

Preview materials consist of representative lessons on 16mm film and one set of all related printed materials. They are available upon request at no charge to those interested in considering the in-school television use of courses. Requests should be sent to:

FIELD SERVICES
NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION
BOX A
BLOOMINGTON, INDIANA 47401

rental information

1. These materials are available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.

2. Fees apply to all forms of electronic transmission, including open-circuit, closed-circuit, and 2500 mhz ITFS facilities.

3. Fees are based on the total enrollment of ALL schools participating in the general school service.

4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.

5. Fees for network transmission are also available on request.

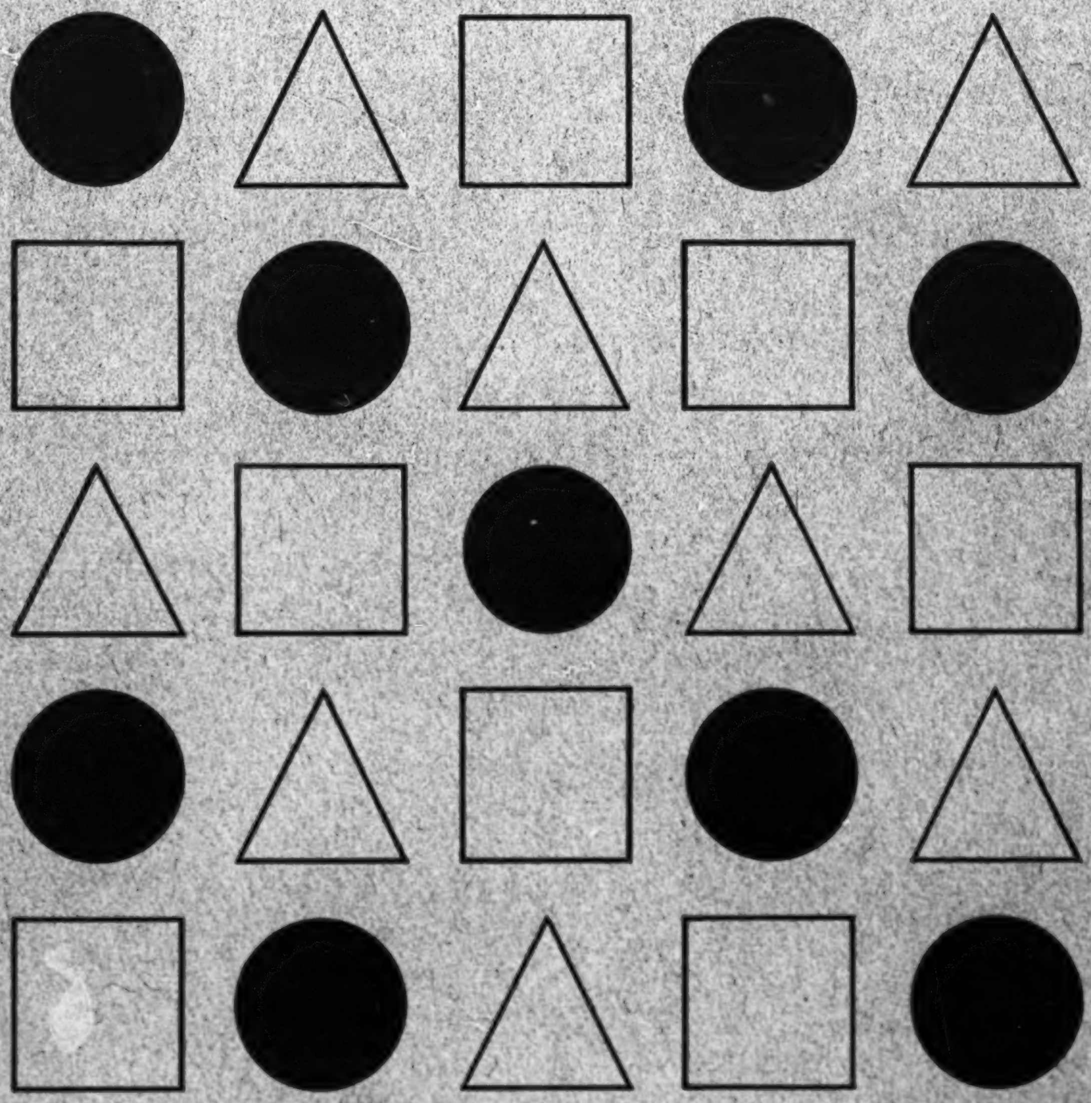
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.

THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional television organizations.

NSCT
Fact Sheet

Sets and Systems



Fifteen 30-minute videotape programs in mathematics for elementary teachers.

The central theme for this whole series is the idea of a mathematical system. In this way, the series helps organize information into structural, logical systems. SETS AND SYSTEMS, developed by an advisory group of mathematics experts, has been tested experimentally and revised according to "feedback" from viewers.

Available from National Center for School and College Television.

The Series

- Helps elementary school teachers improve their teaching of mathematics.
- Creates better understanding of the new approach to mathematics instruction.
- Stresses major concepts and underlaying principles of sets and systems as taught in contemporary mathematics.

The Programs

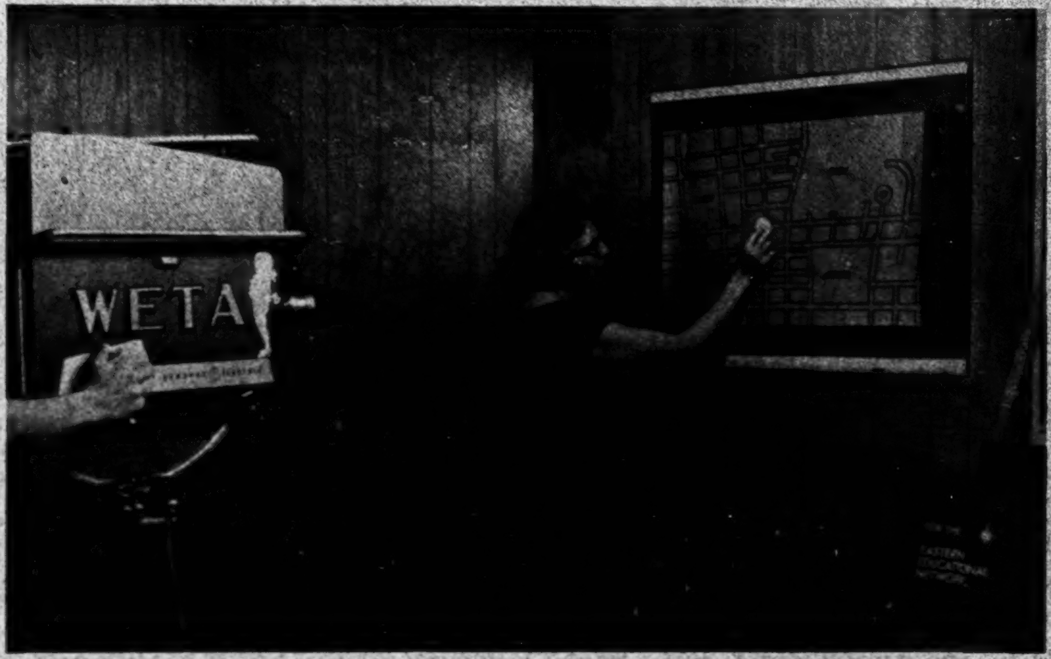
1. *Numbers and Sets*
   Introduces and develops the concept of number. Compares the set of natural numbers and the set of whole numbers.
2. *Operations*
   Develops properties of addition and multiplication with whole numbers in relation to operations with sets.
3. *More on Operations*
   Compares properties of subtraction and division of whole numbers with properties of addition and multiplication.
4. *Numerals*
   Explores the historical development of systems of numeration. Develops rules of positional notation, as demonstrated in base ten (or decimal) system.
5. *More On Numerals*
   Applies the basic understanding of a decimal system of numeration to systems using a base other than ten.
6. *Algorisms*
   Develops algorisms for addition and subtraction of whole numbers. Applies properties of the operations and the basic understandings of the numeration system.
7. *More On Algorisms*
   Develops algorisms used in multiplication and division of whole numbers. Applies properties of the operations and the basic ideas of the numeration system.
8. *Think! !*
   Reviews the ideas of the system of whole numbers and relates them to teaching in the elementary classroom.
9. *Integers*
   Introduces the set of integers and develops properties of operations with integers.
10. *Arithmetic Numbers*
    Introduces the set of arithmetic numbers. Compares the system of arithmetic numbers with the system of whole numbers.
11. *Decimal Fractions*
    Extends the decimal system of numeration to the right of one's place. Demonstrates the properties of operations with arithmetic numbers with these numbers expressed as decimal fractions.
12. *Rational Numbers*
    Introduces the system of rational numbers and identifies it as a field. Compares the systems of whole numbers, integers, arithmetic numbers and rational numbers.
13. *Finite Systems*
    Shows examples of finite mathematical systems. Again defines a mathematic field and introduces the idea of a group.

14. *Points In Space*
Describes how the basic ideas of sets are used in geometry. Develops the concepts of point, line, plane, and simple closed curve.

15. *Numbers And Points*
Establishes an association between the elements of sets and numbers and sets of points. Develops the number line as a visual representation of this association. Uses the number line to help visualize the characteristics of elements of sets of numbers and to demonstrate the properties of operations with numbers. Summarizes the basic characteristics of a mathematical system.

Teacher's Manual

A 120-page *Teacher's Manual* contains a detailed outline of each lesson, a glossary, exercises for reinforcement of each new concept, an answer key, and a bibliography of selected references for each lesson. The *Manual* is available from the Eastern Educational Network.



The Teacher

Mrs. Elizabeth Boisclair is a specialist in mathematics for elementary schools in the District of Columbia Schools. Recently, she has been responsible for planning and directing an in-service program in mathematics for elementary school teachers and principals in Washington, D.C. Mrs. Boisclair is a member of the National Council of Teachers of Mathematics.

The Consultant

Miss Jane Hill, assistant director of Mathematics for the District of Columbia Public Schools, is a former mathematics teacher in secondary schools. She has been a guiding force in workshops in modern mathematics for teachers in New Jersey, Colorado, Virginia and Maryland. Miss Hill is a member of the National Council of Teachers of Mathematics.

Sets and Systems: Produced by WETA-TV, Washington, D.C., for the
Eastern Educational Network.
Available from NCSCT.

Preview Materials

Preview materials consist of three representative lessons (Lessons 1. Numbers and Sets; 8. Think! !; and 15. Numbers and Points) on 16mm film and one copy of the *Teacher's Manual.* They are available upon request at no charge to those interested in considering the in-school television use of courses. Requests for preview materials should be sent to:

Field Services
National Center for School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

Rental Information

1. SETS AND SYSTEMS is available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. The 120-page *Teacher's Manual* is available from The Eastern Educational Network at $2.25 per copy.

Rental Rates for the 15-program telecourse

Total Reachable School Population	Sets and Systems
800,000 to 1,600,000	$1,275
400,000 to 800,000	1,025
200,000 to 400,000	975
100,000 to 200,000	825
50,000 to 100,000	675
up to 50,000	525

The National Center for School and College Television serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional television organizations.

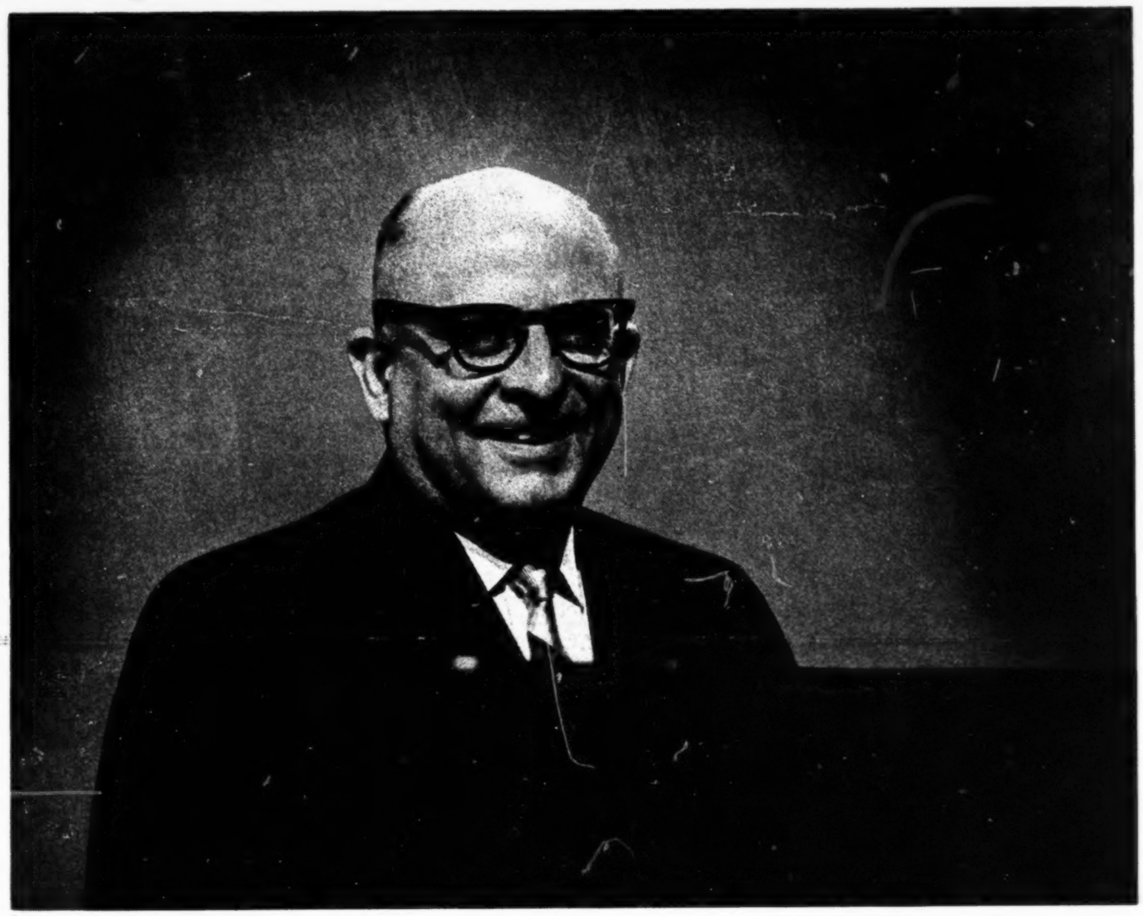
NSCT *FACT SHEET*

PATHWAYS TO DISCOVERING MUSIC

A nationally prominent music teacher and author demonstrates how the elementary school teacher can fully understand the listening, melody, rhythm, and harmony aspects of music.

Available from the
NATIONAL CENTER FOR SCHOOL
AND COLLEGE TELEVISION

Four 30-minute videotape programs in music for in-service teacher education



The Series

- presents a pattern for teaching music in the elementary school.
- suggests techniques concerning the organization of the music program in the elementary school.
- shows how the elementary classroom teacher should experience, analyze, and re-experience different types of music suitable for the elementary school program.

The Programs

1. *Discovery Through Listening*
   Examines the process of developing listening skills and points out a pattern for the teaching of listening. Demonstrates an approach to listening with "Barcarolle" from Offenbach's *Tales of Hoffmann.*
2. *Melody*
   Defines melody and explores the development of melodic concepts in the elementary school music program. Analyzes the mood of melodies, and the movement, rhythm, form and qualities of *Come Rowing With Me, Dance Song,* and a portion of Waldteufel's *Skaters Waltzes.*
3. *Rhythm*
   Defines rhythm and meter, meter signatures, the duration of notes, rhythmic notation, and conducting patterns for different meters. Explains rhythm in *My Beautiful Apples, How D' Ye Do My Partner, Skye Boat Song, and Soldier Boys.*

ff sempre
à Pk.
ff
ff p
molto
Pk.
Gt.
8va
Hbl.
ff
p
mf
Hn.

nachgebend
II
sf
ppp
pf
ppp
pp
pp
4
3

4. *Harmony*

Defines harmony, illustrates the relationship of harmony to melody, the expressive effect of harmony, the construction of chords, consonance and dissonance, and major, minor and dissonant chords. Studies harmony in *Cockles and Mussels, Home on the Range,* and *The Streets of Laredo.*

Teacher's Manual

A *Teacher's Manual* describes the contents of the lessons. The 14-page *Manual* is available from NCSCT.

The Teacher

Dr. Charles Leonhard, professor of music at the University of Illinois since 1951, is a nationally prominent author and music instructor. The author of several books on music, Dr. Leonhard received his B.M. degree from the University of Oklahoma and M.A. and Ed.D. degrees from Columbia University, New York City.

The consultant for the series is Dr. Frank Crockett, the state supervisor of music for the Georgia State Department of Education. Dr. Crockett has been prominent in the field of music education since his graduation from the Juilliard School of Music in New York City with a B.S. degree. He also holds an Ed.D. degree in Music Education from the University of Illinois.

PATHWAYS TO DISCOVERING MUSIC: Produced by the Georgia Educational Television Network, a division of the State of Georgia Department of Education, for NCSCT.

Available from the National Center for School and College Television, Box A, Bloomington, Indiana 47401.

Preview Materials

Preview materials consist of lesson number one, *Discovery Through Listening,* on 16mm film and one copy of the *Teacher's Manual.* They are available upon request at no charge to those interested in considering the in-school use of the course. Requests for preview materials should be sent to:

Field Services
National Center for School and College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

Rental Information

1. PATHWAYS TO DISCOVERING MUSIC is available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A 14-page *Teacher's Manual* is available from NCSCT at 20 cents per copy.

Rental Rates for the four-program series

Total Reachable School Population	Pathways To Discovering Music
800,000 to 1,600,000	$340
400,000 to 800,000	300
200,000 to 400,000	260
100,000 to 200,000	220
50,000 to 100,000	180
up to 50,000	140

NCSCT

The National Center for School and College Television (NCSCT) serves all institutions concerned with the use of television in education. This national agency makes available recorded lessons of the highest quality obtainable for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

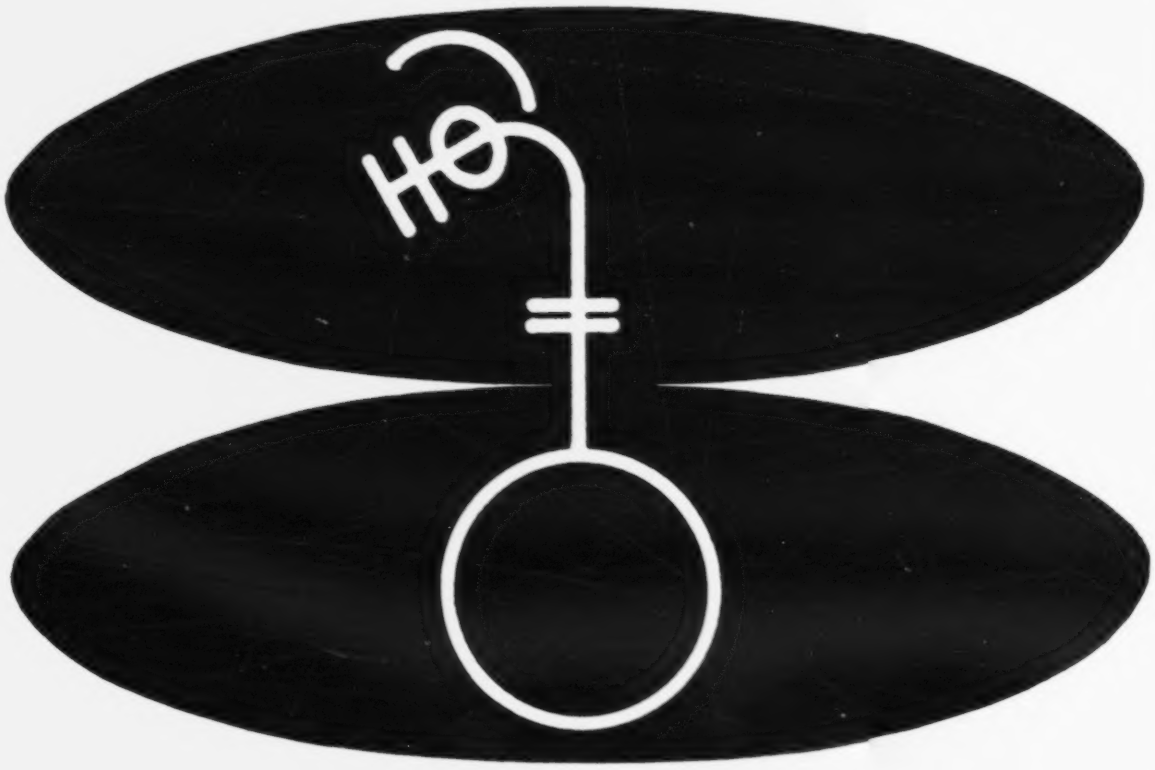
NCSCT further provides knowledge and information about instructional television materials from all sources.

NSCT

FACT SHEET

English - Fact and Fancy

AN IN-SERVICE TELECOURSE OF FIFTEEN 30-MINUTE VIDEOTAPES



MANY OF THE ESTABLISHED TRADITIONS ABOUT LANGUAGE ARE APPROPRIATE TO AN EIGHTEENTH CENTURY STATE OF KNOWLEDGE. THIS SERIES MAY UPDATE THINGS BY 200 YEARS OR MORE.

AVAILABLE FROM THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION

The Series

is designed to help improve teaching by creating an understanding of the English language as a *social* and *behavioral* phenomenon rather than as an abstract, impersonal system devised for the "expression of thought."

is designed to develop attitudes about English and English instruction that accord with mid-Twentieth Century knowledge about languages.

THE PROGRAMS

1. Scientists and Advocates

Defines talking and writing. Presents students of human affairs as scientists or advocates and compares the different kinds of statements produced by each. Distinguishes between descriptive grammar (what people do) and prescriptive grammar (what people ought to do).

2. Language as a Behavioral Phenomenon

Demonstrates that talking and writing are muscular activities, largely the result of unconscious and conventional habit. Examines the role of convention in language. Outlines areas to which rationalized appeals are made to defend linguistic preferences.

3. Structure and Content

Outlines two principal classes of grammatical entities: dictionary units (nouns, verbs, adjectives) and sign units (generally everything except nouns, verbs, adjectives). Demonstrates that sign units are conventional, not logical. Explores how sign units change structure and meaning.

4. Talking and Writing (1)

Examines the different systems of expression used in talking and writing. Outlines talking and writing as parallel systems whose relationship is complex and partial.

5. Talking and Writing (2)

Considers the possibility of reforming our writing system to fit a multiplicity of speech systems. Examines the ways in which speech and writing differ. Demonstrates only a general resemblance, not an identity, between speech and writing.

6. "Correctness" in Language

Amplifies the necessity of making choices among competing phonetic, lexical, syntactic conventions and of adopting or ignoring suggested refinements in language. Points out that the speaker or writer is judged by his choices.

7. What Are the English Language?

Considers English as comprised of a writing system, as a variety of dialects, and as a variety of fantasies about the way English users might speak and write. Examines the teaching of the diversity of linguistic form, the fact that linguistic behavior has social consequences, and the principle of using English appropriate for the occasion.

8. **English and Latin**

Examines some of the by-products of Latin study that people want today. Concludes that the irrelevance of Latin to English has yet to be fully appreciated.

9. **The Search for a "Universal Grammar"**

Examines the notion that grammar is handmaiden to logic. Points out that grammar (which is conventional) and logic are fundamentally incompatible. Explores the continuing search for a universal language.

10. **Change in Language**

Considers continuing changes in language and ongoing efforts to standardize English. Examines the reasons for language change.

11. **Meaning**

Explores the problems caused by a human nervous system filled with associations coming between talking and the things to be discussed, between writing and the things to be written about. Demonstrates that efficient operation in a language depends on becoming aware of the language's areas of ambiguity and its areas of specificity.

12. **A Communications Model**

Considers the ways a message is delivered (speech, para-speech, kinesics, writing, and other signalling systems) and the different ways a message can be received or perceived. Explores the role of the perceiver and demonstrates that the efficient message-deliverer must take every possible step to keep the perceiver's attention.

13. **Formal English as a Foreign Language**

Examines the revolution in foreign language teaching and the emphasis on learning *to perform* in a language. Explores the need for English teachers to have students practice.

14. **English Noun Constructions**

Sketches an introduction to a grammar designed to help students become skillful performers. Explores noun constructions.

15. **English Verb Constructions**

Continues the introduction to a grammar designed to help students become skillful performers. Examines the verb, verb-forms, and verb-constructions.

Teacher's Manual

A *Teacher's Manual* describes the content of each of the 15 programs and suggests follow-up exercises. The 64-page *Manual* is available from NCSCT.

The Teacher

James C. Bostain, currently serving as a scientific linguist at the Foreign Service Institute of the Department of State in Washington, D.C., is a noted lecturer on linguistic and anthropological subjects as well as communications problems. At the Foreign Service Institute, he is supervisor of instruction in Burmese and has also worked with French, German, Japanese, and Vietnamese. He graduated Phi Beta Kappa from Oberlin College and took his Master's degree in Linguistics at Yale University. He received a local Emmy Award from the Academy of Television Arts and Sciences in 1965 for ENGLISH—FACT AND FANCY.

ENGLISH—FACT AND FANCY:

Produced by
WETA-TV, Washington, D.C.
Available from NCSCT.

Preview Materials

Preview materials consist of three representative programs on 16mm film (Program 2. Language as a Behavioral Phenomenon, 6. "Correctness" in Language, and 12. A Communications Model.) and one copy of the *Teacher's Manual*. They are available upon request at no charge to those interested in considering the in-school television use of the series. Requests for preview materials should be sent to:

Field Services
National Center for School and College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

Rental Information

1. ENGLISH—FACT AN FANCY is available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each program during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each program shipped from Bloomington, Indiana.
7. A 64-page *Teacher's Manual* is available from NCSCT at 75 cents per copy.

RENTAL RATES for the 15-program series.

Total Reachable School Population	**English—Fact and Fancy**
800,000 to 1,600,000	$1,275
400,000 to 800,000	1,025
200,000 to 400,000	975
100,000 to 200,000	825
50,000 to 100,000	675
up to 50,000	525

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NCSCT
ADVANCE INFORMATION SHEET

THE COMMUNISTS

. . . EIGHT 20-MINUTE VIDEOTAPE LESSONS FOR THE SENIOR HIGH SCHOOL.

The Communists provides essential knowledge concerning the growth and development of communism, both in theory and practice. In a straightforward and dispassionate way, the telecourse provides a basis for assessing today's communist power system. The contrasts between communism and democratic capitalism or free enterprise are implied rather than stated.

Television teacher: Lee Nichols

The Lessons:

1. The Origins of Communism
2. What is Communism?
3. The Leaders of Communism
4. The Soviet Economic System
5. The Communist Political System
6. Focus on Eastern Europe
7. China and the Far East
8. Communist Foreign Policy and the United States

RENTAL INFORMATION

1. **THE COMMUNISTS** is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A Teacher's Manual is available from NCSCT at cost. Payment in advance is requested for all orders of ten or fewer.

Rental Rates for the 8-lesson telecourse:

Total Participating School population	THE COMMUNISTS
800,000 to 1,600,000	$580
400,000 to 800,000	510
200,000 to 400,000	445
100,000 to 200,000	375
50,000 to 100,000	310
up to 50,000	240

ACCENT ON MUSIC

NSCT
Fact Sheet

Eight 30-minute videotape lessons of concerts and commentary for the seventh through the tenth grades.

Performances by several well-known music groups, including Boston's acclaimed Handel and Haydn Society, and an exploration of the collection of Ancient Instruments in Boston's Museum of Fine Arts highlight this telecourse. Teacher-host Dr. Edward Gilday, conductor of the Handel and Haydn Society, is joined for one lesson dealing with the human voice by Dr. Edward Joy, professor of anatomy at Tufts Medical School, and for another lesson dealing with jazz by Father Norman O'Connor, a well-known authority on jazz.

Available from the National Center for School and College Television

THE TELECOURSE

- Presents performances, commentary, and discussion not ordinarily available in the classroom.
- Broadens musical knowledge and preferences.
- Increases understanding of the pleasures found by musicians in making music.
- Leads students to explore related fields and to undertake some individual or group research in music.

THE LESSONS

1. *The Symphony Orchestra*

   Introduces the structure of the symphony orchestra, using the Greater Boston Youth Symphony. Demonstrates how, through rehearsal, the various parts are combined into a complete musical unit. Presents a rehearsal of Kenneth Wright's *Dance Mosaic,* written especially for youth symphonies, and a finished performance of Saint-Saen's *Rondo Cappriccioso.*

2. *The Changing Voice*

   Presents a discussion of what happens when boys' voices change between teacher-host Dr. Edward Gilday and Dr. Edward Joy. Explains the mechanics of voice production, using a film of the larynx in action and demonstrations of singing by boys of various ages. Shows the tonal differences resulting from maturation. Presents performances by two boys choral groups—the Needham Junior High Boys Choir and the Galloneers of Brockton High School.

3. *Jazz*

   Examines with Father Norman J. O'Connor, S.J., an authority on jazz, the origin and development of jazz and its relationship to Negro religious music. Presents the Herb Pomeroy Quintet playing *Sweet Sue* from its basic form through a musical gambit of slow and fast jazz tempos, Afro-Cuban, slow dance step style, rock and roll, and free improvisation.

4. *Ancient Instruments*

   Demonstrates ancient instruments played by members of the Camerata of the Boston Museum of Fine Arts. Fits the performances into a context of related historical incidents and anecdotes, and organizes them into three sections dealing with string, brass, and reed instruments. Presents several early orchestral selections by the Camerata, as well as a lute-accompanied solo of *Greensleeves.*

5. *National Music*

   Demonstrates traditional music of the Near East, France, and Scotland. Examines instruments peculiar to the Near East, and explains the general historical background of its music and dance which is demonstrated by the Caravan Band. Presents performances of traditional French songs by students of the Franco-American Orphanage.

6. *The Concert Band*

   Discusses the differences between the concert band, the marching band, and the orchestra. Demonstrates how to transform a marching band into a concert band with the Massachusetts Institute of Technology's concert band. Considers composition. Asks the audience to visualize the type of music they think would best portray a story. Presents the music that composer Morton Gould wrote as his musical interpretation.

7. *The Conductor*

   Discusses how a conductor of a choral group uses signals to convey tempo, volume, and emphasis to the chorus. Demonstrates these cues by conducting the concert choir of the Lowell State Teachers College in several short selections.

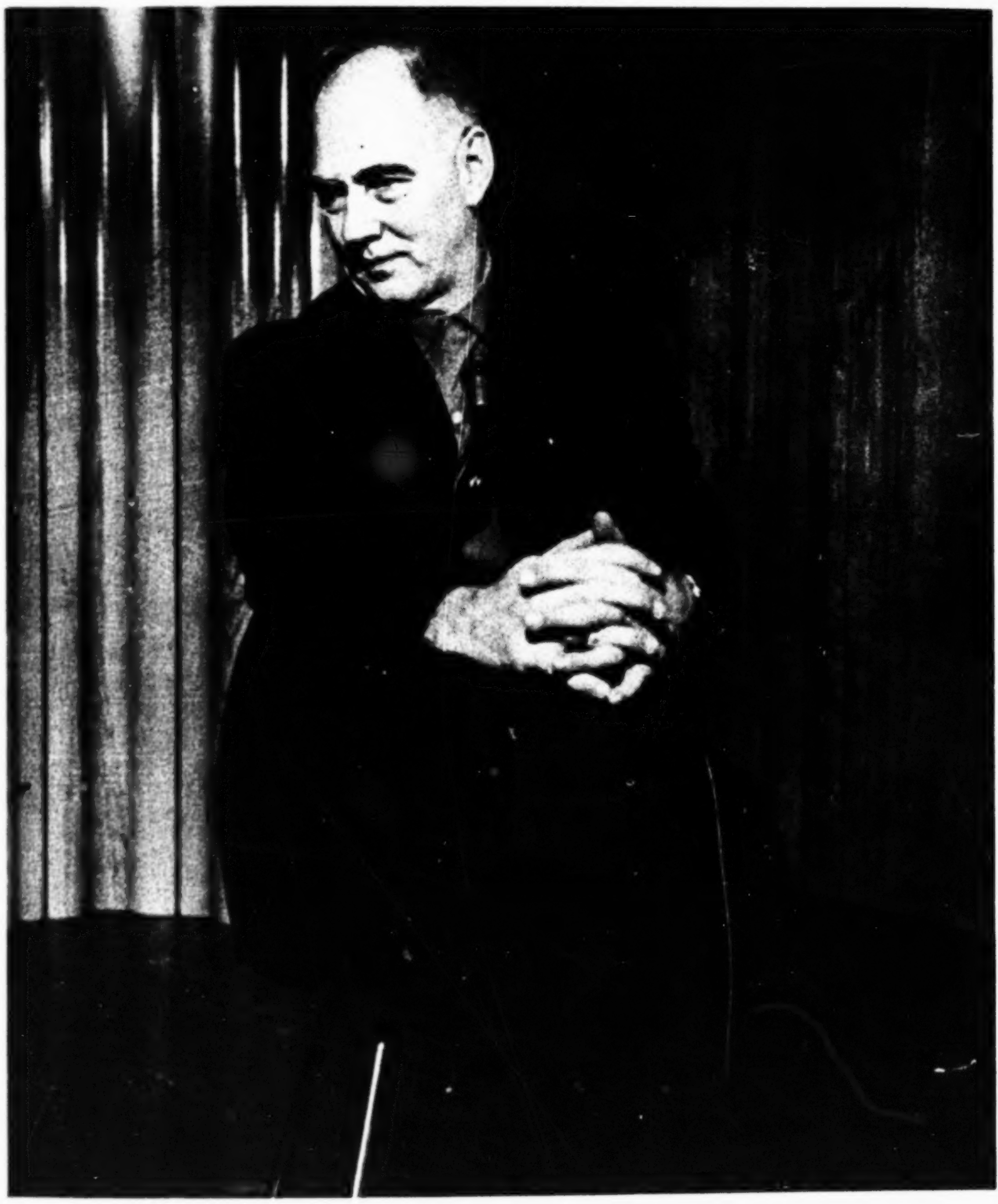
8. *The Oratorio*

   Presents the advance forms of choral music, with an emphasis on Oratorio. Uses selections from Mendelssohn's *Elijah,* sung by the Handel and Haydn Society, to study oratorio. Presents Handel's *Hallelujah Chorus.*

Accent on Music: Produced by The 21 Inch Classroom and WGBH-TV, Boston, Mass.
Available from NCSCT.

TEACHER'S MANUAL

A 30-page *Teacher's Manual* describes the purpose and content of each lesson, suggests preparatory activities, and presents bibliographic materials to augment each lesson. The *Manual* is available from The 21 Inch Classroom, the producing agency.



TEACHER-HOST

Dr. Edward Gilday, chairman of the music department at Lowell State Teachers College in Lowell, Mass., and conductor of the Handel and Haydn Society of Boston, serves as host and teacher for this telecourse.

RENTAL INFORMATION

1. ACCENT ON MUSIC is available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission including open-cricuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. The 30-page *Teacher's Manual* is available from The 21 Inch Classroom at 40 cents per copy or at a bulk rate (10 or more) of 30 cents per copy.

Rental Rates for the eight-lesson telecourse

Total Reachable School Population	**Accent on Music**
800,000 to 1,600,000	$680
400,000 to 800,000	600
200,000 to 400,000	520
100,000 to 200,000	440
50,000 to 100,000	360
up to 50,000	280

PREVIEW MATERIALS

Preview materials consist of three representative lessons (Lessons 1 The Symphony Orchestra; 3 Jazz; and 4 Ancient Instruments) on 16mm film and one copy of the *Teacher's Manual.* They are available upon request at no charge to those interested in considering the in-school television use of the course. Requests for preview materials should be sent to:

Field Services
National Center for School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

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NCSCT
ADVANCE INFORMATION SHEET

YOU AND EYE

. . . THIRTY 20-MINUTE VIDEOTAPE LESSONS IN ART FOR INTERMEDIATE AND JUNIOR HIGH SCHOOL GRADES (grades five and six).

This course is designed to enable the student to discover himself and materials with which he can express himself. The aim of the lessons is to make the student aware of his environment. The materials are infinite, the subjects unlimited, for the stress is on range: modern to ancient, architecture to painting, sculpture to textiles, photography to typography. The format is discussion and demonstration with extensive use of visual materials—films, slides, tapes, visits to artists' studios.

Television teacher: Linda Schmid.

The Lessons:

1. You
2. More than You
3. Goblins and Gargoyles
4. Face in the Mirror
5. Other Faces
6. The Eyes Have It
7. Look Out
8. Out Look
9. Toys and Stuff
10. Peace
11. U's and I's
12. Print
13. Snip Snapshot
14. Watch Out
15. Pets and Pals
16. Wild Animals

Note: The remaining lessons are in production.

RENTAL INFORMATION

1. YOU AND EYE is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A Teacher's Manual is available from NCSCT at 60 cents per copy. Payment in advance is requested for all orders of ten or fewer Manuals.

Rental Rates for the 30-lesson telecourse:

Total Participating School Population	YOU AND EYE
800,000 to 1,600,000	$2,175
400,000 to 800,000	1,920
200,000 to 400,000	1,665
100,000 to 200,000	1,410
50,000 to 100,000	1,155
up to 50,000	900

The World of Change

Twenty 20-minute videotape lessons in science for the sixth grade.

The subject matter of THE WORLD OF CHANGE is basic and applicable in several scientific fields. To give students the opportunity to work through and to think through problems, most of the lessons begin with an observation of a phenomenon that leads to questions and a hypothesis that might be tested. In some cases, an answer is found. In others, there is doubt. As a result, students begin to understand a small part of the content and method of science.

Available from the National Center for School and College Television

The Telecourse

- Teaches certain basic principles concerning some characteristics of matter that can be applied in several different scientific disciplines.
- Presents science as an organized body of interconnected and systematized knowledge obtained in a specific way to assure maximum validity.
- Indicates some of the problems involved in obtaining reliable knowledge.
- Illustrates the use of the scientific method.

The Lessons

1. Solids and Liquids

   Identifies differences in materials. Introduces methods of classifying materials. Demonstrates basic differences between solids and liquids.

2. Gravity

   Demonstrates that the force of gravity pulls toward the earth's center. Examines the concept of weight and the different rates of speed at which three spheres—lead, steel and wood—fall. Shows, as a result of the experiment, that all objects fall at the same rate of speed if air resistance is removed and that all bodies of matter, regardless of size, attract each other.

3. Motion

   Introduces the concept of motion. Stresses the importance of a fixed reference point. Demonstrates how an object in motion may appear to change size and shape.

4. Forces and Motion

   Examines the concept of force. Demonstrates that the amount of force required to move a body depends not only on weight but on the interaction of gravity and friction. Concludes with an examination of inertia.

5. The Pendulum

   Examines the pendulum, its state of motion, its reaction to outside force, and its predictable direction and frequency. Discusses methods of changing the pendulum's rate of vibration. Determines that the length of the line changes the frequency of the pendulum.

6. Earth Motions

   Explores why men once thought the earth was the center of the solar system. Introduces Sir Isaac Newton's laws of motion and his law of universal gravitation. Demonstrates how the earth travels in a curved path around the sun and how the moon travels in a curved path around the earth.

7. Liquids

   Demonstrates that different liquids—in this case, carbon tetrachloride, water, and mineral oil—separate when placed in the same cylinder and that one liquid floats on another. Determines that liquids differ in density. Examines the concept of density.

8. Buoyancy

   Shows, by immersing a lead sinker by turn into carbon tetrachloride, water, and mineral oil, that liquids of different density exert different amounts of buoyant force. Demonstrates that liquids exert pressure in all directions. Shows that the upward pressure a liquid exerts is a buoyant force. Concludes that the greater the density of the liquid, the greater the pressure it exerts.

9. Density of Liquids

   Illustrates that liquids of different temperature are different in density. Shows that as water is heated, its particles move further apart. Determines that differences in density cause convection currents.

10. Solids

    Wonders how the weight of two different materials is determined. Introduces the cube as the standard unit for measuring volume. Demonstrates how volume is measured and how this measurement leads to knowledge of density of the solid being measured. Shows that the weight of an object is not an indication of its volume and that the volume of an object is not an indication of its weight.

11. Density of Solids

    Points out that weight and volume are measurements of the amount of material present. Identifies one of the most important characteristics of a material as its density—the ratio of the weight and volume. Shows that this measurement can be used in comparing such diverse materials as lead, styrofoam, and quartz. Demonstrates that an object immersed in a liquid displaces a volume of that liquid equal to its own.

12. Pressure

    Demonstrates, with snow shoes and ice skates, that the pressure on a surface is the force exerted per unit of area. Introduces the square as the standard unit for measuring area. Points out that force is measured in units of weight. Shows that the pressure on each unit of an area is decreased when total force is distributed over a large area. Determines that pressure may be expressed in grams per square centimeter, pounds per square inch or square foot.

13. Gases

    Demonstrates the practical value of gases. Points out that when a liquid evaporates it changes to a gas. Shows that while gases are compressible, a gas not in a container will diffuse throughout available space. Demonstrates that pressure is caused by the collisions of gas molecules on the sides of the container.

14. Air Pressure
Points out that air pressure is about 14.7 pounds per square inch. Demonstrates, with hollow glass tubes, that air pressure is sufficient to support a column of mercury thirty inches high. Determines that the pressure may be increased by increasing the number of gas molecules in a given volume.

15. Winds
Introduces the wind as air in motion and the sun as the source of energy for this motion. Shows that the sun heats different parts of the earth unequally and that this differential heating causes air masses to have different densities. Explains that differences in density of air cause the convection currents which are the wind. Points out that winds move from areas of greater pressure to areas of lesser pressure.

16. Solutions
Presents the characteristics of a solution that distinguish it from other types of mixtures. Points out that the particles which dissolve are evenly distributed throughout the solvent and that the constituents of a solution cannot be separated out by filtration. Explains that the density of a solution is greater than that of the solvent alone. Determines that the behavior of solutions fits the molecular theory of matter.

17. Crystals
Presents crystals as solids patterned in a certain way—flat faces, edges, and angles. Points out that a crystal consists of atoms arranged in a special pattern which is repeatable. Examines grouping patterns.

18. Crystal Structure
Investigates a close-pack arrangement in which spheres are placed so they occupy the smallest possible volume. Points out that the hexagon and the face-centered cube are true building blocks for certain crystals since the pattern can be repeated without leaving gaps. Shows that in the close-packed system each atom is in contact with 12 others. Determines that with the close-packed system it is possible to derive several different geometric shapes.

19. Crystal Formation
Shows that crystals break down when a substance changes state from a solid to a liquid. Demonstrates the change of state of solid in a micro projector. Points out that, in addition to the fact that crystals form when a liquid freezes, crystals also form when the solvent in a solution evaporates.

20. Basic Research
Explains that in basic research a scientist is not interested in the practical value of his findings but wants to add to his knowledge. Emphasizes that the importance of basic research is the value of the knowledge itself. Demonstrates how curiosity might lead to research into the problem or how fast different liquids cool and at what rates.

Teacher's Manual

A **Teacher's Manual** describes the basic ideas and the content of each of the 20 lessons, contains vocabulary lists and resource materials for each lesson, and suggests related activities for the classroom. The 93-page **Manual** is available from NCSCT.

The Teacher

Gene Gray, who for the past six years has been a science consultant for kindergarten through the sixth grade in Newton, Mass., spent seven years as a classroom teacher, six of them with fifth and sixth graders. Mr. Gray is also a teacher in Newton's Field Science Program, in which he and one or two other teachers work with Newton sixth graders on special science field problems in a New Hampshire camp. A television teacher for four years, he has taught a second grade science telecourse and one other sixth grade science telecourse.

NCSCT

Rental Information

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2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A 93-page **Teacher's Manual** is available from NCSCT at 75 cents per copy.

RENTAL RATES for the 20-lesson telecourse

Total Reachable School Population	The World of Change
800,000 to 1,600,000	$1,450
400,000 to 800,000	1,280
200,000 to 400,000	1,110
100,000 to 200,000	940
50,000 to 100,000	770
up to 50,000	600

The World of Change

Produced by The 21 Inch Classroom and WGBH-TV, Boston, Massachusetts.

Available from NCSCT.

Preview Materials

Preview materials consist of three representative lessons on 16mm film (Lessons 3. Motion, 7. Liquids, and 9. Density of Liquids) and one copy of the **Teacher's Manual.** These materials are available on request at no charge to those interested in considering the in-school television use of this course. Requests should be sent to:

Field Services
National Center For School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional television organizations.

NSCT

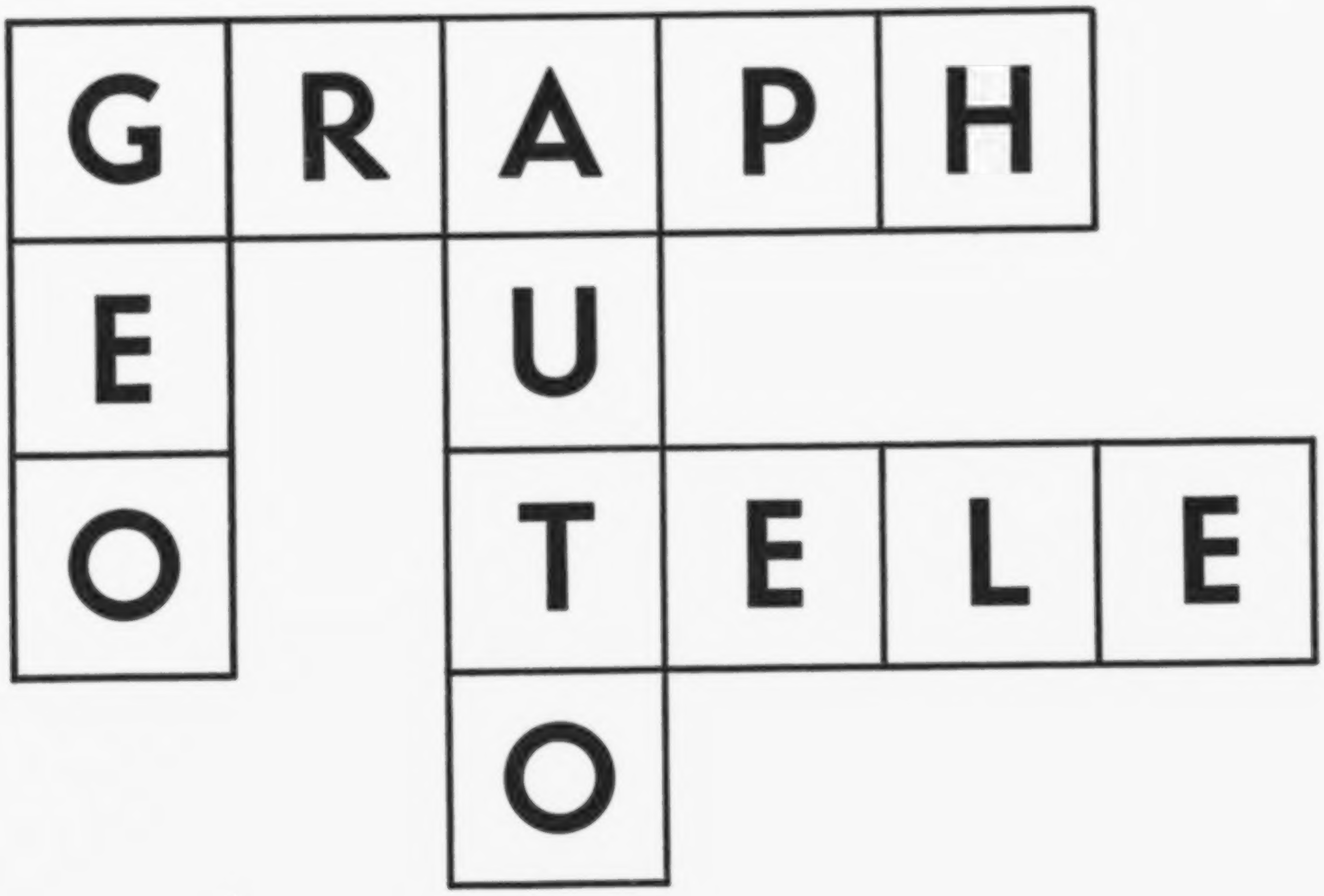
FACT SHEET

The WordSmith

A language arts course of twenty-eight 20-minute videotapes for the fifth and sixth grades.

Also available in two shorter courses of 15 lessons each.

The average American child between the ages of six and ten learns new words at the rate of 5,000 per year. The goal of THE WORDSMITH is to keep that child's vocabulary increasing without laborious effort on his part.



Available from the National Center for School and College Television.

The Telecourse

- is designed to introduce the idea of word-roots and word-families, to arouse the student's curiosity about words, and to sharpen his awareness of language and his enjoyment of words.
- is designed as an introduction to new areas of thought and as a partial introduction to foreign languages.
- is designed to show the student that a complete knowledge of the words he already knows is the key to learning those he does not.

Telecourse One
Twenty-eight lessons

1. **Introductory Program**

   Introduces word-roots and families of words. Establishes the concepts of words as living organisms and roots as cells that form the organisms. Explains the "Word Machine." Arouses interest in the history of individual words.

2. **Number Words I**

   Illustrates several word-cells which carry numerical meanings into the words they help to form.

3. **Word-Cells from the Body I**

   Shows how the importance of the human body is reflected in our language through the many words derived from word-cells which name physical parts.

4. **Nature-Cells I**

   Demonstrates how two of the primary parts of the natural world, earth and water, reflect in our language the important place they hold in our lives.

5. **Animal Words and Cells**

   Uses student's interest in animals to lead him to an interest in words related to animals.

6. **Given Names**

   Explains how given names, like other words, contain roots and meanings of their own. Shows how less familiar names are only different expressions of common names. Discusses how slang terms can have a logical and interesting development from standard English.

7. **Air and Space**

   Points out that the "new" language of space relies entirely on elements which are centuries old.

8. **Meter Reading**

   Studies the increasing importance of measurement in our lives as reflected in the large number of meters and meter-words. Shows how a single word-cell retains its spelling and its meaning in very simple form despite its increasingly widespread use.

9. **Word-Cells from the Body II**

   Continues the exploration of the word-cells which name physical parts of the body.

10. **Negative Prefixes**

    Introduces the most important English prefixes that have negative meanings. Demonstrates how some words which are negative in form and meaning lose their negative connotation through usage.

11. **Nature-Cells II**

    Considers the natural phenomena of sound, temperature, and the passage of time as reflected in our language.

12. **Prefixes**

    Introduces a number of common prefixes. Shows how prefixes can add a single common element to a number of different words.

13. **The Calendar**

    Discusses the stories behind the names and words associated with the calendar.

14. **Suffixes**

    Presents a few very common suffixes which are important and easy to recognize and understand. Demonstrates that word endings do not occur by chance. Shows that the suffix often contributes crucially to the meaning of the word.

15. **Family Names**

    Explains how many of the commonest family names in this country came to be and what they mean.

16. **Two Large Families**

    Emphasizes the fact that words occur in families. Shows that an awareness of the family resemblance makes it easier to understand each word in the group.

17. **Diminutives**

    Describes diminutive suffixes by means of several chosen for their simplicity and consistent spelling.

18. **Number Words II**

    Continues the study of word-cells with numerical meanings, sometimes clear and sometimes hidden.

19. Phobias

Introduces the rules of technical word-formation by means of examples which are simple and consistent. Demonstrates that even strange-looking words can be easily understood once their roots are known.

20. Human Activities

Describes several verbal roots which indicate simple human activities. Shows that these verbal roots are prolific in words which form a part of our everyday speech.

21. Politics

Introduces the vocabulary of politics. Shows how original meanings were sometimes different from their current meanings.

22. Relatives

Shows how the importance of the family is reflected in the many English words derived from the names of various family members.

23. Chemical Elements

Presents scientific names as words which are ultimately just as simple and useful as other words.

24. Business Words

Discusses a part of the language of commerce and finance. Shows how past business attitudes and practices remain in the words they have helped to shape.

25. Verb-Cells

Focuses attention on a few verb-cells which are simple, common, and consistent in their spelling.

26. Number Words III

Considers several new numerical word-cells. Reviews the number-cells discussed in Lessons 2 and 18.

27. REG and Royalty

Introduces two very large and useful families of words which share the common idea of ruling or leading.

28. How to be a WordSmith

Points up the dual purpose of THE WORDSMITH: awareness of language and enjoyment of words.

Teacher's Manual

A ***Teacher's Manual*** describes each of the 28 lessons and suggests follow-up exercises. The 48-page ***Manual*** is available from NCSCT.

The WordSmith

Produced by KQED and Bay Region Instructional Television for Education, San Francisco, California.
Available from NCSCT

THE WORDSMITH is
two short courses are:

Telecourse

1. Introductory Progra
2. Number Words I
3. Animal Words and
4. Air and Space
5. Negative Prefixes
6. The Calendar
7. Family Names
8. Diminutives
9. Number Words II
10. Human Activities
11. Politics
12. Business Words
13. Verb-Cells
14. Number Words III
15. How to be a Wo

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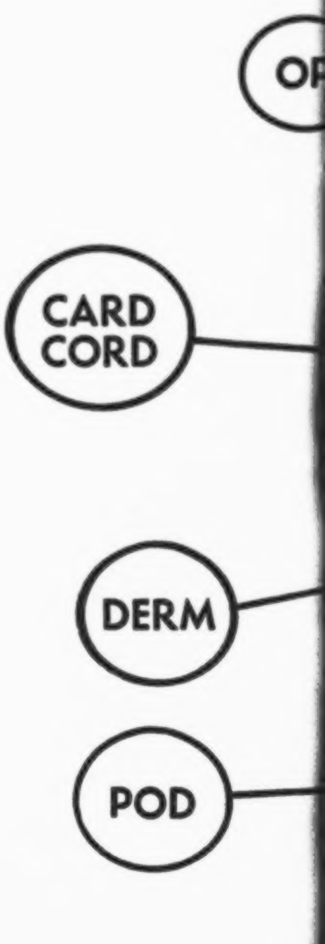

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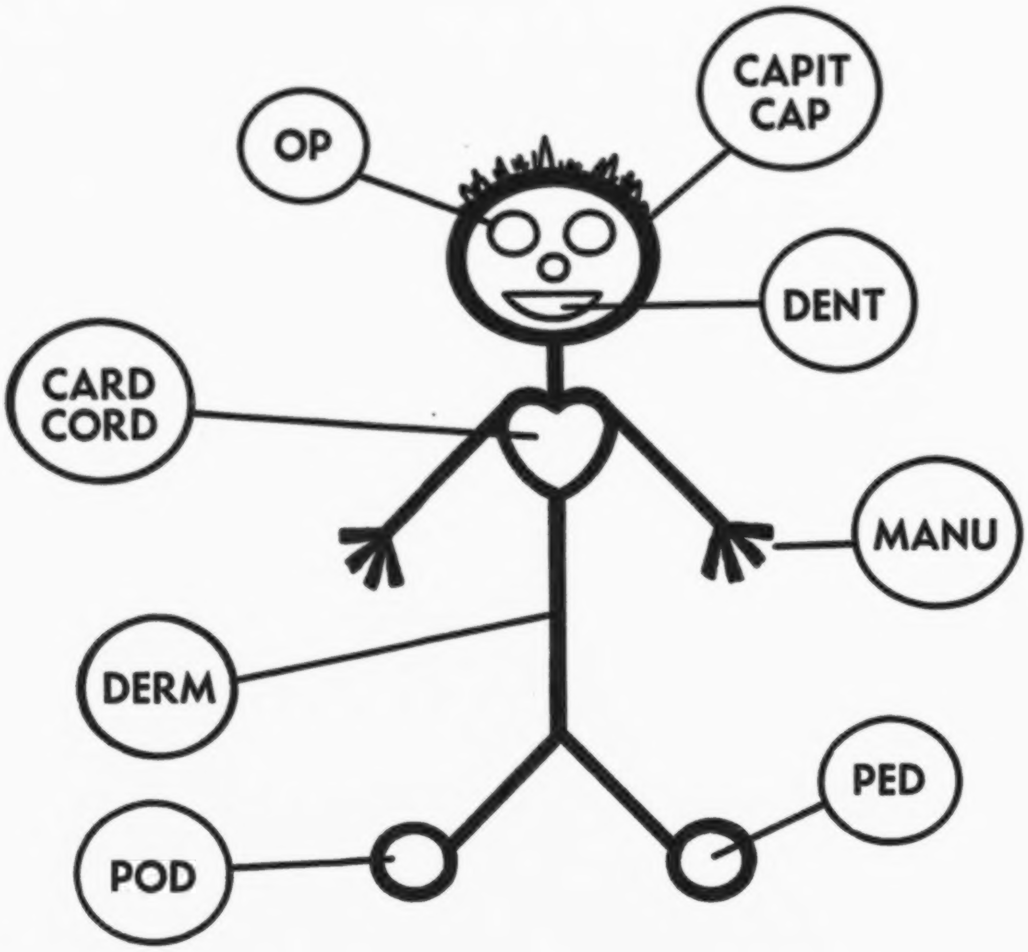
NCSCT

THE WORDSMITH is also available in two 15-lesson telecourses. Lessons in the two short courses are:

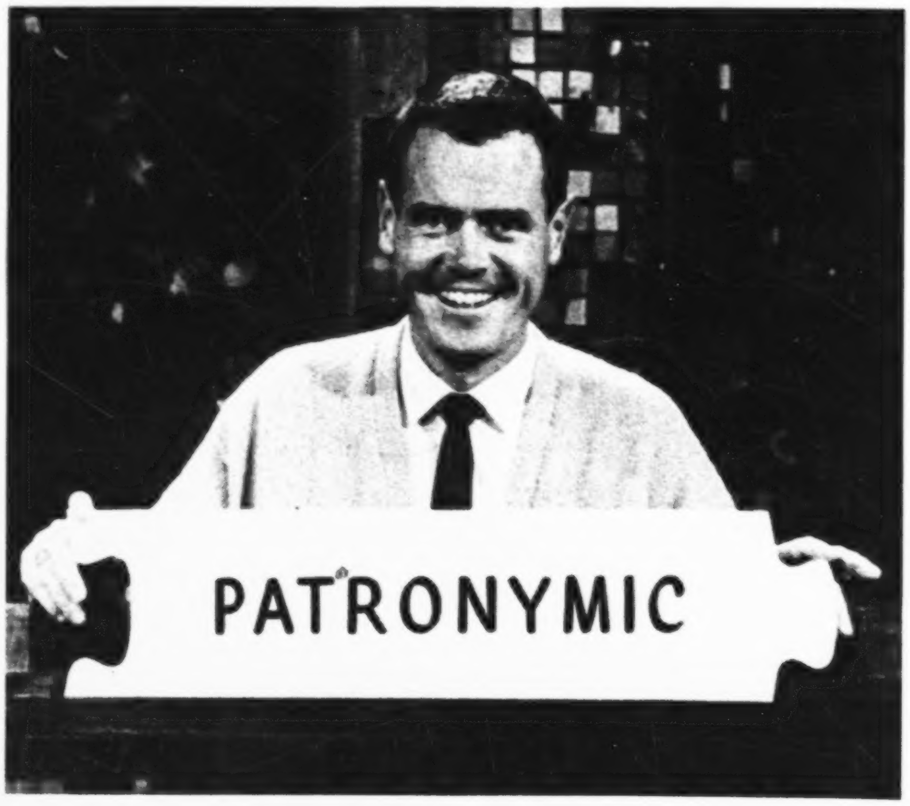
Telecourse Two	**Telecourse Three**
1. Introductory Program	1. Introductory Program
2. Number Words I	2. Word-Cells from the Body I
3. Animal Words and Cells	3. Nature-Cells I
4. Air and Space	4. Given Names
5. Negative Prefixes	5. Meter Reading
6. The Calendar	6. Word-Cells from the Body II
7. Family Names	7. Nature-Cells II
8. Diminutives	8. Prefixes
9. Number Words II	9. Suffixes
10. Human Activities	10. Two Large Families
11. Politics	11. Phobias
12. Business Words	12. Relatives
13. Verb-Cells	13. Chemical Elements
14. Number Words III	14. REG and Royalty
15. How to be a WordSmith	15. How to be a WordSmith

For lesson description see Telecourse One.



The Teacher

Robert W. L. Smith, who has been studying and teaching Etymology for 13 years, is now working toward a doctoral degree in Linguistics at the University of Michigan. He has taught English, Philosophy, Psychology, Education, Latin, and Mathematics at levels from the seventh grade to post-graduate study. At the time of the production of THE WORDSMITH, he was associate professor of English at the University of Santa Clara in California. Mr. Smith holds a Bachelor of Arts degree from the University of Chicago and a Master of Arts degree from Gonzaga University.



Preview Materials

Preview materials consist of three representative lessons on 16mm film (Lesson 3. Word-Cells from the Body I, 7. Air and Space, and 14. Suffixes.) and one copy of the ***Teacher's Manual.*** They are available upon request at no charge to those interested in considering in-school television use of the course. Requests for preview materials should be sent to:

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National Center for School &
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Tel: 812 337-8905

Rental Inforn

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THE NATIONAL CENTER FOR SCHOOL
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National Center for School &
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Tel: 812 337-8905

Rental Information

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2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
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6. Fees do not include outgoing or rereturn transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A 48-page ***Teacher's Manual*** is available from NCSCT at 50 cents per copy.

Rental Rates for the 28-lesson telecourse

Total Reachable School Population	**The WordSmith**
800,000 to 1,600,000	$1,930
400,000 to 800,000	1,790
200,000 to 400,000	1,555
100,000 to 200,000	1,315
50,000 to 100,000	1,080
up to 50,000	840

Rental Rates for a 15-lesson telecourse

Total Reachable School Population	**The WordSmith**
800,000 to 1,600,000	$1,085
400,000 to 800,000	960
200,000 to 400,000	830
100,000 to 200,000	705
50,000 to 100,000	580
up to 50,000	450

NCSCT

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NCSCT
ADVANCE INFORMATION SHEET

meet the arts

. . . SEVEN 30-MINUTE VIDEOTAPE LESSONS FOR THE INTERMEDIATE GRADES (grade five).

Music, theater, dance, printing, sculpture, literature, photography, and architecture—these are the languages of art and the stuff of this telecourse. Using a variety of examples from the arts, including performance, this course introduces the components of art—rhythm, shape, mood, form, and content. MEET THE ARTS introduces children to the arts as a source of enjoyment and stimulation and demonstrates how much art can communicate to them.
Television teacher: Sonya Hamlin

The Lessons:

1. Introduction
2. Shape
3. Rhythm
4. Form
5. Content
6. Folk Arts
7. Enjoyment

RENTAL INFORMATION

1. **MEET THE ARTS** is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. Teacher's Manual is available from NCSCT at 60 cents per copy. Payment in advance is requested for all orders of ten or fewer Manuals.

Rental Rates for the 7-lesson telecourse:

Total Participating School Population	MEET THE ARTS
800,000 to 1,600,000	$595
400,000 to 800,000	525
200,000 to 400,000	455
100,000 to 200,000	385
50,000 to 100,000	315
up to 50,000	245

NCSCT
ADVANCE INFORMATION SHEET

LET'S INVESTIGATE

. . . FIFTEEN 15-MINUTE VIDEOTAPE LESSONS IN SCIENCE FOR THE INTERMEDIATE GRADES (grade four).

This course demonstrates the methods of science and leads children inductively to a realization of some of the major patterns or phenomena of the physical world. By actively involving students in problems, **LET'S INVESTIGATE** places the major responsibility for learning upon the student. To solve the problems presented, students are shown they must employ the scientific method of observing a phenomenon, forming a hypothesis, and verifying the hypothesis by tests and measurement. This course is designed to be integrated with NCSCT's course for sixth graders, THE WORLD OF CHANGE.

Television teacher: Gene Gray

The Lessons:

How Do We Know?
Gravity and Bounce
Light
Shadow
Waves
Balance
Pulleys
Water and Seltzer

Note: The remaining seven lessons are in production.

RENTAL INFORMATION

1. **LET'S INVESTIGATE** is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
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7. A Teacher's Manual is available from NCSCT at 60 cents per copy. Payment in advance is requested for all orders of ten or fewer.

Rental Rates for the 15-lesson telecourse:

Total Participating School Population	LET'S INVESTIGATE
800,000 to 1,600,000	$960
400,000 to 800,000	845
200,000 to 400,000	735
100,000 to 200,000	625
50,000 to 100,000	510
up to 50,000	400

NSCT FACT SHEET

tell me a story

THIRTY 15-MINUTE VIDEOTAPE LESSONS FOR KINDERGARTEN AND PRIMARY GRADES.

THIS COURSE IS A RESPONSE TO THE UNIVERSAL CRY OF CHILDREN, "TELL ME A STORY!" A HAPPY INTRODUCTION TO GROUP LISTENING, THE COURSE FEATURES STORIES FROM THE FOLKLORE OF THE WORLD AND FROM THE CLASSIC STORYTELLERS.

CLASSIC STORYTELLING DEMANDS ONLY THE TELLER, THE STORY, AND THE AUDIENCE—GATHERED AS CLOSE AS POSSIBLE AROUND THE STORYTELLER. AFTER MORE THAN TEN YEARS OF EXPERIMENT WITH VARIOUS METHODS OF PRESENTING STORIES EFFECTIVELY VIA TELEVISION, THE PRODUCERS HAVE PLACED THE STORYTELLER IN A SETTING THAT SUGGESTS THE STORY'S TIME AND PLACE. DURING THE TELLING OF EACH STORY, THE CAMERA SELDOM WANDERS FROM THE STORYTELLER, SO THAT THE CHILD IS NOT DISTRACTED FROM HIS OWN MENTAL IMAGES AND INTIMACY IS NOT LOST.

THE TELECOURSE

. . . Introduces group listening.
. . . Introduces great literature.
. . . Awakens imagination.
. . . Implants a feeling for logic.
. . . Broadens a child's horizon.
. . . Builds and enhances vocabularies.

TEACHER'S PROGRAM

For TELL ME A STORY, a special 30-minute program has been produced for teachers who will be using the course in their classrooms. During the special program, storyteller Margaret Hodges discusses the values of storytelling, the format of TELL ME A STORY, and the way in which stories should be told. To illustrate the discussion, cameras follow storyteller Margaret Hodges into a Pittsburgh school and record a classroom storytelling session.

THE LESSONS:

1. PUSS IN BOOTS

This is one of the best known stories of Charles Perrault, whose TALES OF MY MOTHER GOOSE was published in Paris in 1697. This French folk tale illustrates that a fortune of only a cat can be great, if the cat is clever.

2. HANSEL AND GRETEL

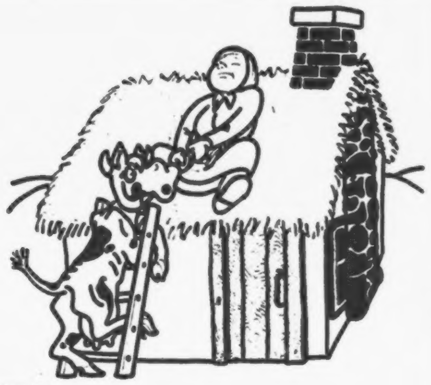
Two children meet a cruel witch in a gingerbread house in this story by the Brothers Grimm.

3. THE COCK, THE MOUSE, AND THE LITTLE RED HEN

The Little Red Hen, the industrious heroine in this story, assists her friends in escaping from the big bad fox.

4. CINDERELLA

This is probably the best known story in the world and the most popular for dramatization by children. In this French classic by Charles Perrault, the poor young girl goes to the ball, but her finery lasts only until midnight.

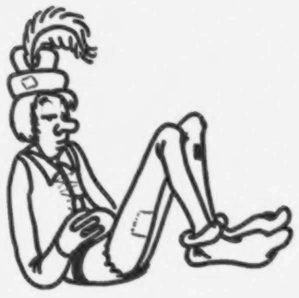


5. THE THREE SILLIES

This English folk tale is a comforting example of the idiotic behavior of others which makes our own mistakes less embarrassing by comparison.

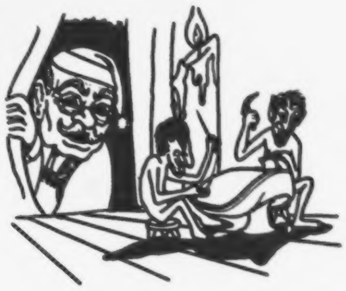
6. STONE SOUP

The recipe for an amazing soup which makes enough for a whole village is the theme of this French folk tale: a story that lends itself well to dramatization by a whole class.



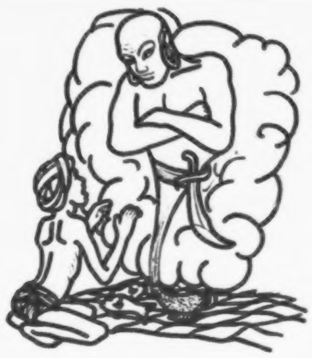
7. LAZY JACK

The moral in this English folk tale is that the solution to one problem does not necessarily fit another problem.



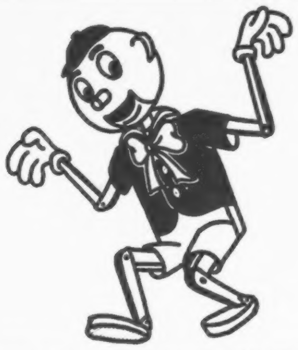
8. THE SHOEMAKER AND THE ELVES

The old shoemaker and his wife reward the Little People who have come to their aid in this story by the Brothers Grimm.



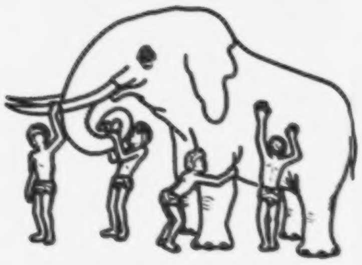
9. THE FISHERMAN AND THE GENIE

From the Arabian Nights comes this tale of the wily but stupid genie and the humble but wise fisherman.



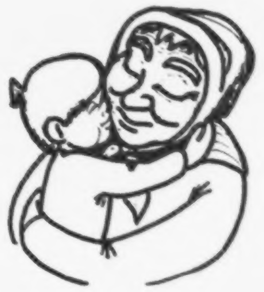
10. THE ADVENTURES OF PINOCCHIO BEGIN

This story by Carlo Lorenzini exemplifies how much a good father loves his child, even when that child is only a naughty little boy made of wood.



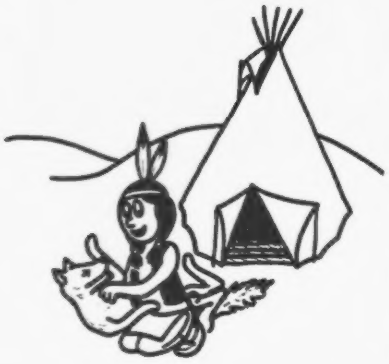
11. THE BLIND MEN AND THE ELEPHANT

The moral of this fable from India is that to know or understand anything completely is to know or understand all of its parts or sides.



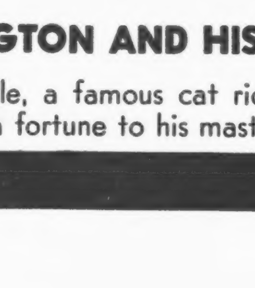
12. MY MOTHER IS THE MOST BEAUTIFUL WOMAN IN THE WORLD

This Russian folk tale expresses the belief that people are not loved because of their beauty, but they seem beautiful to those who love them.



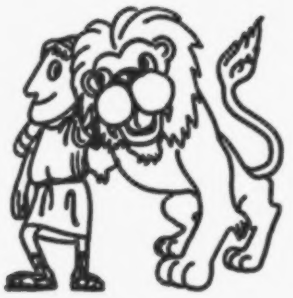
13. THE FIRE BRINGER

A coyote helps an Indian boy to protect his people from the cold in this American Indian legend.



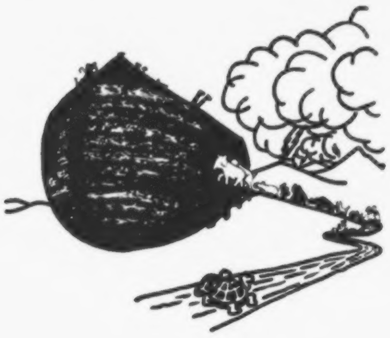
14. DICK WHITTINGTON AND HIS CAT

In this English folk tale, a famous cat rids Barbary of rats and mice and brings a fortune to his master.



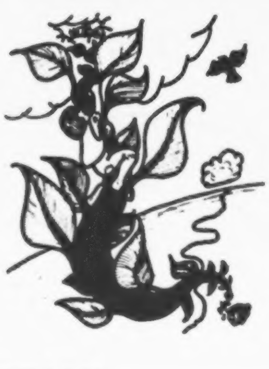
15. ANDROCLES AND THE LION

This tale of the reward a slave in ancient Rome receives for befriending a wounded lion is thought to be one of Aesop's Fables.



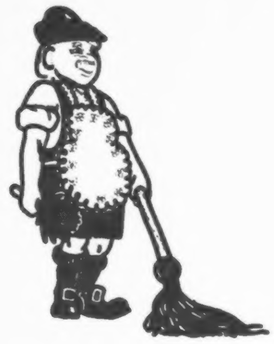
16. NOAH'S ARK

In this story from the Old Testament, Noah builds an ark and the animals go in, two by two.



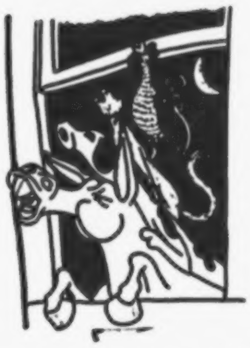
17. JACK AND THE BEAN STALK

In this version of the old English folk tale, Jack's quick climb to fame and fortune is done on his own magical bean stalk, and thus the fortune at the top is rightfully his.



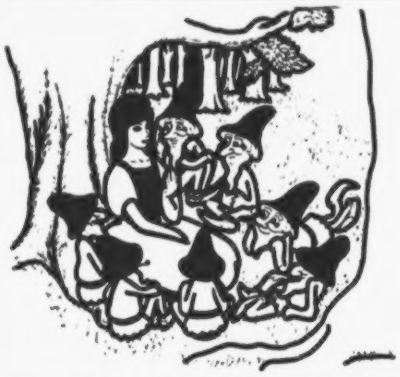
18. GONE IS GONE

A merry Bohemian story of a man who wanted to do housework, but changed his mind!



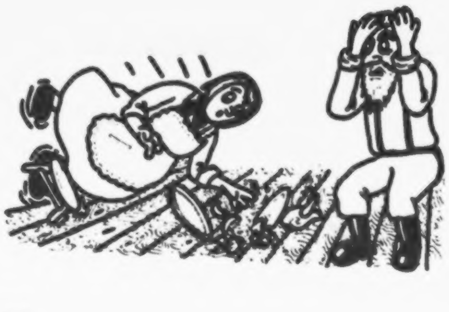
19. THE BREMENTOWN MUSICIANS

From the Brothers Grimm comes this adventure of four animals who run away from home and come to a little house in the woods.



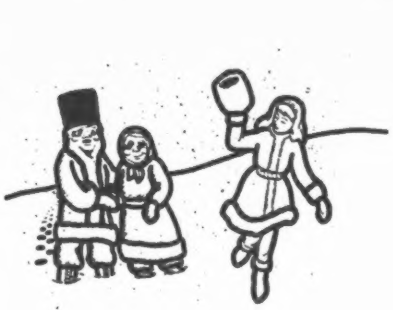
20. SNOW WHITE AND THE SEVEN DWARFS

A beautiful princess hides from her jealous wicked stepmother and finds a home in a wooded glen with seven kind little men in this story by the Brothers Grimm.



21. HEREAFTERTHIS

Out of the Appalachian mountains comes this old English folk tale of the old man's wife who could never do anything right.

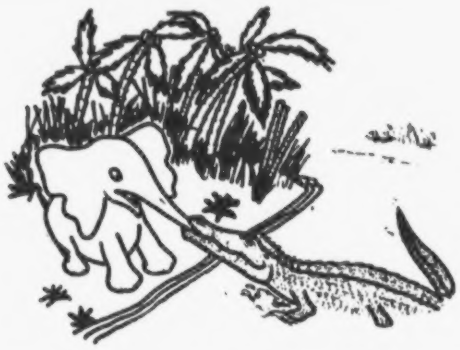


22. THE LITTLE GIRL MADE FROM SNOW

This is a haunting old Russian folk tale of a strange and lovely child who comes to live with a lonely old couple and then disappears.

23. THE SORCERER'S APPRENTICE

This story by the Brothers Grimm relates the two-thousand-year-old tale of the problems encountered by an apprentice magician when he tries to employ magic to accomplish a task.



24. THE ELEPHANT'S CHILD

A brand-new elephant goes to the great grey-green greasy Limpopo River, and there he gets a new nose in this story first told by Rudyard Kipling.

25. THE TWELVE DANCING PRINCESSES

In this story by the Brothers Grimm, Sometimes Michel, the gardener boy, solves the mystery of the twelve pairs of shoes that are danced to pieces each night and is amply rewarded.

26. THE CAT AND THE PARROT

This is a folk tale from India concerning a cat with an unbelievable appetite.

27. THE UGLY DUCKLING

This story by Hans Christian Andersen tells of the trials and tribulations of a swan hatched in a duck's nest.

28. THE TIGER, THE BRAHMAN, AND THE JACKAL

In this fable from India, a trusting Brahman is rewarded for his kindness by a sly little jackal who comes to his aid.

29. THE EMPEROR'S NEW CLOTHES

This story by Hans Christian Andersen points out that it often takes the innocence of a child to find out the pretentiousness of adult vanity.

30. THE WAVE

The love and obedience of a child and the wisdom and sacrifice of an old man save a village from a tidal wave in this legend from Japan.

TEACHER'S MANUAL

A **Teacher's Manual** contains brief comments on the background of each story and occasionally suggests activities that might follow the broadcast. Poems, songs and other stories relating to the telecasts are listed and there is a list of sources for each story to which teacher and children may turn either before or after the broadcast. The **Manual,** which accompanies the series and is available from NCSCT, also contains suggestions that will help a teacher develop her own skills as a storyteller.

THE STORYTELLER

Margaret Hodges has been using educational television to enrich the lives of countless boys and girls for the past 12 years. She is a story specialist in the Compensatory Education Department, Pittsburgh Board of Public Schools, and a lecturer in **Storytelling** at the Graduate School of Library and Information Sciences, the University of Pittsburgh. She is a well-known author of children's stories, and her story, "The Wave," was runner-up for the Caldecott Award in 1964. She has also edited a number of books for children. She holds a Master of Library Science degree from the Carnegie Institute of Technology.

TELL ME A STORY

Produced by WQED School Services, Pittsburgh.
Available from NCSCT.

PREVIEW MATERIALS

Preview materials consist of two 16mm., 30-minute films and one copy of the **Teacher's Manual.** One film is the special program prepared for teachers who will be using TELL ME A STORY. The other film contains one complete lesson (Lesson 8. **The Shoemaker and the Elves**) and excerpts from two other lessons (17. **Jack and the Bean Stalk,** and 24. **The Elephant's Child**). They are available upon request at no charge to those interested **in considering the in-school television use of courses.** Requests for preview materials should be sent to:

Field Services
National Center for School and College Television
Box A
Bloomington, Indiana 47401

Tel.: 812 337-8905

RENTAL INFORMATION

1. **TELL ME A STORY** is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc. ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A Teacher's Manual is available from NCSCT at 60 cents per copy. Payment in advance is requested for all orders of ten or fewer Manuals.

Rental Rates for the 30-lesson telecourse:

Total Participating School Population	Tell Me A Story
800,000 to 1,600,000	$1920.
400,000 to 800,000	$1695.
200,000 to 400,000	$1470.
100,000 to 200,000	$1245.
50,000 to 100,000	$1020.
Up to 50,000	$795.

The special 30-minute program prepared for teachers who will be using **TELL ME A STORY** is also available on a rental basis.

Rental Rates for the 30-minute program:

Total Participating School Population	Tell Me A Story
800,000 to 1,600,000	$85.
400,000 to 800,000	$75.
200,000 to 400,000	$65.
100,000 to 200,000	$55.
50,000 to 100,000	$45.
Up to 50,000	$35.

NCSCT

The National Center for School and College Television (NCSCT) serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional televisions organizations.

NCSCT
ADVANCE INFORMATION SHEET

STEPPING INTO RHYTHM

. . . THIRTY 15-MINUTE VIDEOTAPE LESSONS IN MUSIC FOR KINDERGARTEN AND PRIMARY GRADES (grade one).

STEPPING INTO RHYTHM assists the classroom teacher in helping each child fully develop his musical potential. In encouraging the student to explore music in all its aspects, this telecourse uncovers the wealth of the world of music and lets each child discover the areas and activities he most enjoys. Through a variety of guided musical experiences that includes singing, rhythm, listening, and familiarity with instruments, each student will begin to develop his own musical standards.

Television teacher: Brenda Veal

The Lessons:

1. Let's Get Acquainted
2. Sing and Do
3. Autumn
4. Funny Little Squirrel
5. Black and Gold
6. Indian Lullaby
7. Little Drum, Big Drum
8. Thanksgiving
9. Love for Three Oranges
10. The Trumpet and the Tuba
11. Holiday Windows
12. Toys
13. Snow
14. The Violin
15. Carnival of Animals
16. Five Angels
17. The Minuet
18. Bye-m-Bye
19. Clocks
20. Clocks
21. Little Pig
22. Spring
23. Strange Animals
24. Let's Go to the Zoo
25. Let's Go to the Zoo
26. The Woodwinds
27. Hawaiian Rainbows
28. Chimes of Dunkirk
29. Transportation
30. Transportation

RENTAL INFORMATION

1. **STEPPING INTO RHYTHM** is available on a rental basis for use **only as part of the regular instructional television activities of schools and colleges.**
2. Fees apply to all forms of electronic transmissions, including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
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6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A Teacher's Manual is available from NCSCT at cost. Payment in advance is requested for all orders of ten or fewer.

Rental Rates for the 30-lesson telecourse:

Total Participating School Population	STEPPING INTO RHYTHM
800,000 to 1,600,000	$1,920
400,000 to 800,000	1,695
200,000 to 400,000	1,470
100,000 to 200,000	1,245
50,000 to 100,000	1,020
up to 50,000	795

NSCT FACT SHEET

Available From the National Center for School and College Television

SING CHILDREN SING

Fifteen 15-minute videotape lessons in music for the second grade.

The Teacher

Tony Saletan has had wide experience both as a music consultant and music teacher and as a television performer. For five years he was music consultant for all grades of the Newton, Massachusetts, public schools. For three years he was music consultant for the Harvard University Pre-school. For two years he was a music instructor at Tufts University. Mr. Saletan, who holds a Bachelor of Arts degree and a Master of Arts in Teaching degree from Harvard University, has appeared as a host on National Educational Television's special series for children, "What's New." For two years he represented the United States at concerts and in teaching music techniques and materials in Asia and Africa. Now, in Boston, he performs for Young Audiences, Inc.

The Telecourse

- Provides music experiences not ordinarily available in the classroom.
- Introduces representative stringed, woodwind, and percussion instruments.
- Presents folk songs and dances from many countries.
- Involves students in singing and responding to rhythms.
- Seeks to stimulate creative expression.

The Lessons

1. TINGA LAYO emphasizes proper breathing. Uses the guitar as an introduction to the string family of instruments. Introduces *Tinga Layo,* the song, and Tinga Layo, the donkey.
2. SILVY encourages tone production and musical talk. Illustrates the use of singing as communication. Presents the songs *Silvy* and *Ha, Ha, Thisaway.*
3. AIKEN DRUM discusses the percussion family of instruments through the drum which is used to tap names, phrases, and the melodic rhythm of songs. Acquaints students with the classical Scottish tradition of Aiken Drum and the song *Aiken Drum.*
4. THIS OLD MAN introduces the major scale with the aid of step bells. Presents the song *This Old Man* and the folk dance *Seven Jumps.*
5. THE FAMOUS DUKE OF YORK develops sensitivity to pitch. Pupils sing *The Famous Duke of York* and follow instructions rhythmically in the song *Join Into The Game.*
6. THE MAGIC PENNY continues the exploration of string instruments with the five-string banjo. Introduces the song *The Magic Penny.*
7. THE ROOSTER SONG encourages improvisation within a form through the use of *The Rooster Song.* Demonstrates the dance, *Chimes of Dunkirk.*
8. THE FOOLISH FROG introduces the cante-fable, a narrative form in which a story is told partly in song. Encourages building stories around fragments of music through the story and song, *The Foolish Frog.*
9. THREE WHITE GULLS demonstrates the principles underlying the playing of wind instruments through the recorder. Presents the songs *Three White Gulls* and *Cuckoo.*
10. BINGO illustrates the U.S. play party game with the song *Bingo.* Describes and demonstrates the song and the dance (or game). Involves pupils in rhythmic movement.
11. GOING TO BOSTON continues the study of stringed instruments with the introduction of the autoharp. Presents a new song, *Going to Boston,* and reviews four songs, *Silvy, Aiken Drum, This Old Man,* and *Three White Gulls.*
12. MOLE IN THE GROUND urges children to invent some rhyming couplets for a new song, *Mole In the Ground.* Demonstrates a Swedish dance, *Carrousel.*
13. SPARROW'S MUSIC SCHOOL uses the conductor's baton to indicate the pitch of the two notes sung by the class in a first experience with a Japanese song, *Suzume-no-Gakko* (*Sparrow's Music School*). Views some Japanese children's games and reviews *Three White Gulls.*
14. PICK A BALE O'COTTON introduces the legendary singer and 12-string guitar player Huddie Ledbetter (Leadbelly). Presents three of Leadbelly's songs, *Silvy, Ha, Ha, Thisaway,* and *Pick A Bale O'Cotton.* Shows a rare film of Leadbelly singing and playing *Pick A Bale O'Cotton.*
15. TWO VOICES explores some of the possibilities of two-part singing and playing. Invites pupils to sing the round *Chairs to Mend.* Demonstrates the same two-part principle as recorder and guitar play *Tallis' Canon.* Presents the songs *Scotland's Burning, Skip to My Lou, Paw Paw Patch,* and *Jenny Jenkins.*

Teacher's Manual

A *Teacher's Manual* describes the content of each of the 15 lessons and suggests before-the-program preparations and follow-up exercises. The 57-page *Manual* is available from The 21 Inch Classroom. Use of the *Manual* is essential to proper use of the telecourse.

SING,
CHILDREN,
SING:

Produced by The 21 Inch Classroom and WGBH-TV, Boston, Mass.

Available From NCSCT.

Preview Materials

Preview materials consist of three representative lessons (Lessons 1. Tinga Layo, 4. This Old Man, and 9. Three White Gulls) on 16mm film and one copy of the *Teacher's Manual.* They are available upon request at no charge to those interested in considering the in-school television use of courses. Requests for preview materials should be sent to:

Field Services
National Center for School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

Rental Information

1. SING, CHILDREN, SING is available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school TV service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. The 57-page *Teacher's Manual* is available from The 21 Inch Classroom at 85 cents per copy or at a bulk rate (10 or more) of 75 cents per copy.

RENTAL RATES for the 15-program telecourse

Total Reachable School Population	Sing, Children, Sing
800,000 to 1,600,000	$960
400,000 to 800,000	845
200,000 to 400,000	735
100,000 to 200,000	625
50,000 to 100,000	510
up to 50,000	400

THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

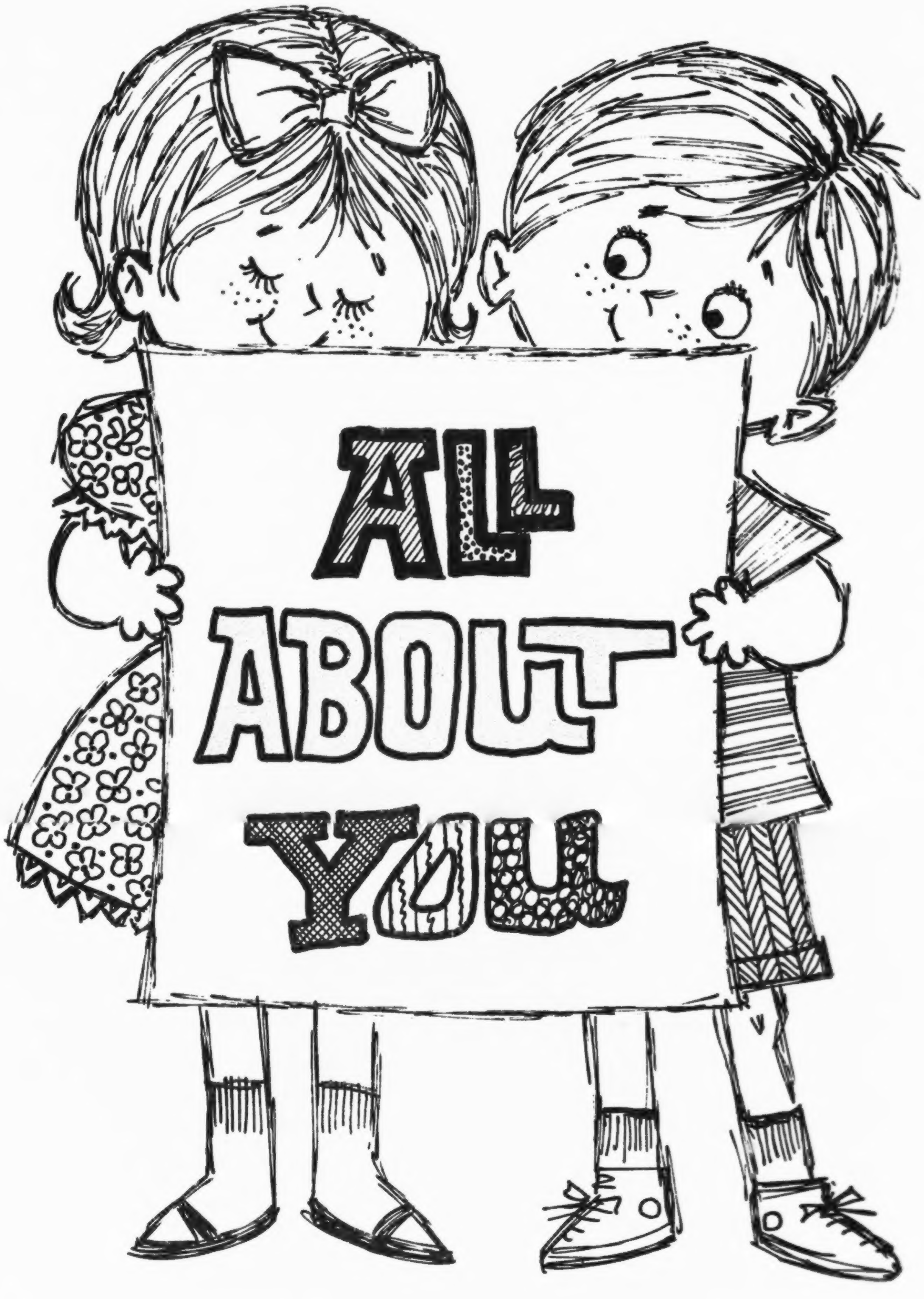
To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional television organizations.

NSCT

ELEVEN 15-MINUTE VIDEOTAPE LESSONS IN SCIENCE AND HEALTH FOR THE FIRST OR SECOND GRADE.

NSCT

FACT SHEET



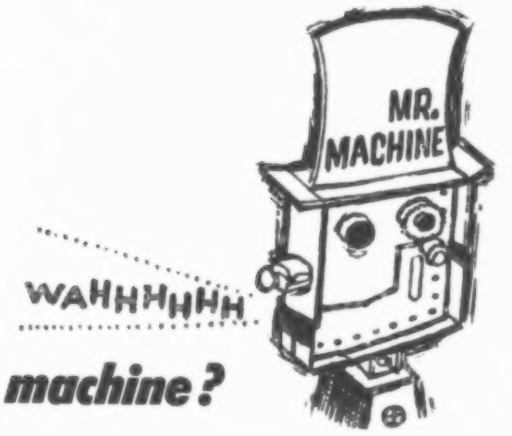
THIS OHIO STATE AWARD-WINNING TELECOURSE EXPLORES WITH CHILDREN THE WONDERS OF THEIR MINDS AND BODIES AND THE REASONS FOR GOOD HEALTH CARE. TO MAKE EACH CHILD AN ACTIVE PARTICIPANT IN EACH LESSON, THE TELECOURSE MAKES EXTENSIVE USE OF MODELS, DEMONSTRATIONS, FILM CLIPS, SIMPLE DRAWINGS, AND PUPPETS.

AVAILABLE FROM THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION.

THE TELECOURSE

- Explores with the child the wonder of his mind and body.
- Presents a picture of what a human being is.
- Examines reasons for good health care.

THE LESSONS



1. *are you a machine?*

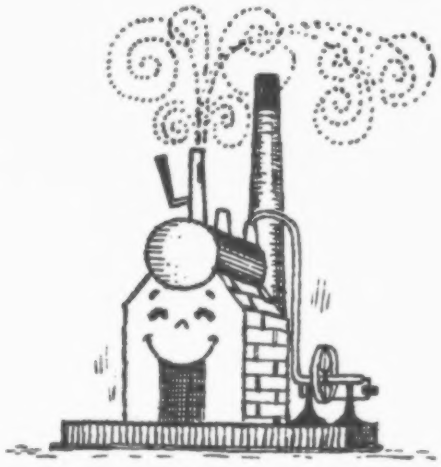
Introduces "Mr. Machine," a walking, squawking mechanical man who cannot hear, learn, or understand. Shows how much more wonderful the child is than any machine ever invented. Identifies with the aid of an anatomical model important organs inside the human body.

2. *two hundred bones*

Introduces "Mr. Bones," a plastic model of the human skeleton, who displays the marvelous construction which helps support and give shape to the body. Shows, through the antics of a rag doll, how the spine is arranged to give support and flexibility. Shows by comparing a chain of wooden spools and a stiff rod the advantage of a backbone of many parts. Studies the rib cage and skull and reviews how the two bony structures protect and support some of the soft organs of the body.

3. *no strings on you*

Introduces the question of muscles with a dancing marionette clown. Considers muscles as bands that hold the framework together and make movement possible. Explains why exercise is important.



4. *what's your fuel?*

Shows that just as a toy steam engine needs fuel to operate, so does the human body. Illustrates how food is digested.

5. *twenty white horses*

Uses the classic riddle of the 20 white horses to turn attention to the teeth. Demonstrates the function of teeth. Helps children understand why their baby teeth fall out. Stresses the importance of taking care of their teeth to make them last a lifetime.

6. take a deep breath

Considers by demonstrating with a simple demonstration with a burning candle, the body's need for air. Shows how air gets in and out of the body.

7. your wonderful pump

Explains with the aid of a model the function of the heart, where it is located, and what it looks like inside. Shows how the heart pumps blood throughout the body. Links this treatment of the heart with the previous two programs on the digestive and respiratory systems.

8. getting the message

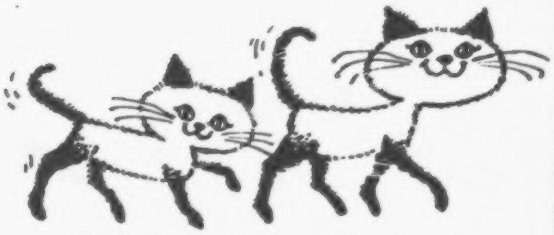
Explores the world of the senses through simple audio and visual experiments. Reviews the functions of the five senses. Reviews the function of the brain.

9. you and your feelings

Explains emotions and considering the feeling of other people. Indicates that as children grow up their feelings grow up too. Introduces a character puppet named Muggsy.

10. my how you've grown!

Shows that human bodies are made of little "blocks" called cells. Examines enlarged drawings of cells from different organs. Introduces the idea that growth takes place when cells divide and portrays the amazing potential of a baby.

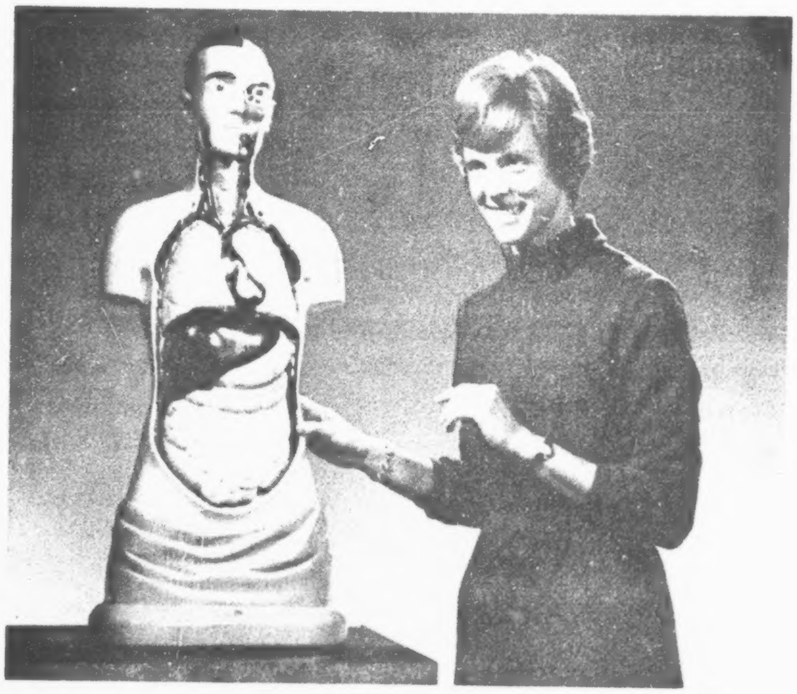


11. in the beginning

Opens with a photographic sequence of a chick hatching from an egg. Shows the growth and development of the embryo chick with scale models and, with an x-ray, what a mother cat's body looked like inside before kittens are born. Explains that children begin as special tiny cells inside their mother's body. Presents some sense of the care and affection that surround a newborn baby.

TEACHER'S MANUAL

A 33-page **Teacher's Manual** contains descriptions of the lessons, lesson objectives, suggested activities for before and after the lessons, vocabulary lists, correlated audio-visual aids, and bibliographies for both students and teachers. The **Manual** is available from NCSCT.



THE TEACHER

Mrs. Louise McNamara, former acting director of the 21 Inch Classroom and elementary science teacher in Massachusetts is the television teacher. She has served as a science editor for Ginn & Co., and is now a consultant to the children's library of Boston's Museum of Science.

CONSULTANT

Mrs. Ada B. Litchfield has eleven years experience as a first grade teacher and two years experience as an editor of primary level health textbooks. She has also written and published children's stories.

ALL ABOUT YOU:

Produced by the 21 Inch Classroom and WGBH-TV, Boston, Mass.

Available from NCSCT.

PREVIEW MATERIALS

Preview materials consist of three representative lessons on 16mm film (Lesson 2. Two Hundred Bones, 8. Getting the Message, and 9. You and Your Feelings) and one copy of the **Teacher's Manual.** They are available upon request at no charge to those interested in considering the in-school television use of the course. Requests for preview materials should be sent to:

Field Services
National Center for School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

RENTAL INFORMATION

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4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
7. A 33-page **Teacher's Manual** is available from NCSCT at 35 cents per copy.

Rental Rates for the 11-lesson telecourse.

Total Reachable School Population	All About You
800,000 to 1,600,000	$705
400,000 to 800,000	620
200,000 to 400,000	540
100,000 to 200,000	455
50,000 to 100,000	375
up to 50,000	290

ALL ABOUT YOU is also available as a 10-lesson telecourse.

THE NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary, secondary, college, extension, industrial, and continuing professional education.

To relate its activities to the major needs of institutions throughout the United States, NCSCT works closely with content specialists, administrators, professional groups, and regional television organizations.

ROUNDABOUT

FACT SHEET

Fifty-two 15-minute lessons to enhance the educational experience of disadvantaged preschool children. Also available in five smaller units.

THE TELECOURSE

- * assists a child in coping with his emotional reactions to natural events.
- * acquaints a child with occupations and facilities found in most neighborhoods.
- * provides experiences intended to stimulate a child's imagination and creative expression, to heighten his perception, and to broaden his world.

LESSONS

ROUNDABOUT

This unique telecourse is the result of a United States Office of Education-sponsored project to demonstrate the production and use of televised material for enhancing the educational experience of disadvantaged preschool children. The lessons introduce into the daily school schedule a variety of experiences and activities that are highly desirable but cannot be produced in classrooms with their traditional store of teaching resources. In extending and enriching the preschool curriculum, the course focuses on scientific and mathematical concepts, creative arts, social studies, and interpersonal relations and social development.

UNIT I

A PAIR NEEDS TWO

Illustrates the fact that pairs are two things that go together. Uses the many parts of the body and clothing as examples.

DRUMS

Shows that rhythmic sounds can be made by beating such things as a plastic pail or a cereal box like a drum. Demonstrates that sound differs depending upon the size and material of the object used as a drum and depending upon the manner in which it is played.

TURTLE

Shows the Galapagos, pancake, spotted, painted, and box turtles. Illustrates the various parts and actions of the box turtle, and compares a box turtle with a painted turtle.

BRUSH PAINTING

Demonstrates how different brushes and paint make different kinds of lines and shapes, and the effects of using brushes and paints in different ways. Leads to an appreciation of the aesthetic effect of rhythm and balance.

BARBERSHOP

Introduces the barber as a specialist in giving shaves and haircuts. Illustrates the procedure of both giving and getting a shave and a haircut. Focuses attention on the trade mark of a barber, the red and white candy-striped pole.

BAKING

Uses a common adult activity, food preparation, to illustrate the concept of quantity measurement. Draws attention to the physical change occurring when liquids and solids interact, and when a material undergoes baking.

MAKE-UP SONGS

Increases the child's vocabulary, imagination, and creative expression by making up lyrics to simple American folk songs.

FIREMAN

Introduces the fireman and shows the special clothes and equipment he needs to do his job. Illustrates the procedure for reporting a fire by means of a fire alarm box.

DANCE ALONG

Increases the enjoyment of dance as a form of self-expression by initiating movement of the whole body in response to verbal directions.

HINGES

Compares the movement of the joints of our bodies to the movement of different kinds of hinges. Shows how the type and placement of a hinge determines the direction and manner in which the hinged object moves.

UNIT II

FAMILIES

Shows that a family can differ in size and can consist of more than two generations. Points out that in some families the father works and the mother takes care of the children, while in other families the mother also works and some other person takes care of the children.

WHAT DO YOU HEAR

Increases the powers of perception by making a game of identifying an object by the sound it makes.

NEIGHBORHOOD WALK

Defines the concept of "neighborhood" by pointing out the many everyday sights, sounds, and smells of objects and activities common to most sections of a city. Increases the power of observation by pointing out the normally unnoticed, interesting events taking place in familiar surroundings.

SING ALONG

Increases the children's enjoyment of singing, group participation, and vocabulary of descriptive words by making up verses for simple American folk songs.

CARPENTER

Demonstrates how a carpenter uses his various tools in the creation of a toy.

KITTEN

Describes the characteristics of a kitten and tells how to feed, train, and care for one.

RHYTHM

Invites the child to express with body movements the rhythmic feelings evoked by different rhythmic patterns presented in sound and visually.

DRAMA IN DANCE

Demonstrates that basic emotions can be expressed through body movement and that a person's manner of movement is often indicative of how he feels.

LIBRARY

Familiarizes children with the great numbers of books on many different subjects contained in a library. Introduces the librarian as someone who knows about the various books and is ready to help. Points out the various services offered by the library.

CLAY

Describes clay, an art medium which offers a means of creative self-expression, and promotes an increase in the child's descriptive vocabulary.

UNIT III

LIVING OR DEAD

Compares the characteristics of living and dead animals, explains that all living things must eventually die, and relates the comparison to human beings. Helps create an awareness of the normal feelings everyone has when there is a death of a member of the family or of a close friend.

TELEVISION

Introduces the production side of television by showing how a television camera "sees" with the lens, how sound is picked up by a microphone, and how a set is lighted.

SUPERMARKET

Familiarizes children with the great variety of food and household goods contained in a supermarket. Acquaints children with the procedure of locating and selecting food and paying for the items at the check-out counter.

WHEELS

Compares the great variety of wheels and shows the different uses made of wheels. Makes a game of finding different types of wheels.

TRIP TO THE ZOO

Stimulates interest in learning the identity of various zoo animals and associating them with simple animal groups.

WATER IMAGES AND SONG

Emphasizes the moods created by the beauty of different water moods. Shows the enjoyment that comes from either listening to or singing with a group of singers.

CLINIC

Stresses that good health requires regular medical examinations and that the discomfort of preventive medicine is better than illness. Familiarizes children with the procedures followed in going to a clinic for an examination.

WHAT SHALL I WEAR

Points out that weather conditions and planned activities determine the kind of clothes that should be worn, and reviews the types of clothes that are worn together.

SHADOWS

Illustrates how a shadow is created under various conditions, and makes a game of identifying objects and actions from just their shadows.

BABY

Points out that the amount of parental attention a baby receives is due to the baby's dependence on others. Explains that as a baby learns and develops skills, his independence increases and he requires less parental attention.

UNIT IV

SING IT AGAIN

Encourages children to respond to simple folk songs with action and improvised song verses.

WHAT GOES TOGETHER

Develops the child's perception by making a game of associating objects which are used together.

JOBS

Provides a clearer concept of adults at work and the skills and duties different jobs require.

BOILING WATER

Illustrates the characteristics of hot water and demonstrates the effect of hot water on various foods.

RHYTHM IN DANCE

Uses the dance to demonstrate that kinesthetic feelings differ with the various rates of rhythmic movement.

DENTIST

Introduces the concept of proper, regular dental care with special emphasis placed on the proper way to brush teeth. Shows the procedures the dentist follows in checking teeth and shows the instruments and equipment he uses.

FINGERPAINTING

Teaches children a form of creative self-expression by translating the feeling of body, arm, and hand movement onto paper.

TWO FOR THE JOB

Points out that there are certain activities which require the cooperative efforts of two people.

FOLK SONGS

Introduces the fun of listening to and joining in the singing of folk songs from various countries, especially when the songs are sung in the native language of the country.

AIRPORT

Shows the different types of jobs and the kind of work involved in the air transport industry.

UNIT V

SONGS TELL A STORY

Increases children's sensitivity to the mood of a song as depicted by the content of the story-song.

HOW DOES IT FEEL

Stresses the awareness of and the sensitivity to the feel of different objects by making a game of separating a group of objects into piles according to their textures. Associates words descriptive of textures with common objects, thus increasing vocabulary.

CHILDREN EVERYWHERE

Identifies the common traits of children from different parts of the world and points out the value of cultural individuality.

WHAT'S INSIDE ME

Presents a skeleton and compares the bones in the model to the bones in a person's body.

CONTRAST IN DANCE

Gives the experience, through use of the whole body, of expressive movement with simple, contrasting actions, and relates descriptive action, direction, and position words to the movements which they describe.

FASTENERS

Shows various ways to fasten various materials together, and encourages the practice of securing various clothing fasteners.

GLASS

Demonstrates the skill and care needed in the art of glass blowing, shows how high heat affects glass, and strives to increase the appreciation of glass art objects.

GUITAR

Helps children hear the different tones made by plucking or strumming a guitar, and the effect of tightening or loosening the strings.

BABY ANIMALS

Points out the comparison between the mother animal and her young and shows the ways in which she cares for her young. Identifies the different kinds of animals and the general classification (pet, domestic, and wild) to which each belongs.

STORY

Explains the word "race" and illustrates racial differences in order to assist children in coping with the discovery of a multi-racial world.

FOLKLORE

Presents an aesthetic experience of poetry and folklore that identifies common elements of growing up.

BUS RIDE

Introduces the bus as a means of bringing other neighborhoods into the world of a young child, and describes the roles of passenger and driver.

Project Director

Dr. Rose Mukerji, well-known author and educator, i project director, producer, and principal author. To hea up the project at WETA-TV in Washington, D.C., Dr Mukerji took a one-year leave of absence from Brookly College of the City University of New York where sh is assistant professor of early childhood education.

The Teacher

One of ROUNDABOUT'S many innovations is the us of a sustaining figure who is neither teacher nor acto Milton Rooks plays the part of "Jim Jeffers," the sustainin on-camera personality. The role of "Jim" is developed a just an ordinary fellow who lives down the block or is a uncle or an older brother.

Teacher's Manual

A Teacher's Manual contains a description of each lesson, suggested follow-up activities, and references supporting and expanding each lesson. The Manual is available from NCSCT.

Preview Materials

Preview materials consist of a 30-minute sampler lesson (available only on videotape) and one copy of the Teacher's Manual. They are available at the rental rate of $5.00 to those interested in considering ROUNDABOUT for television use. Requests for preview materials should be sent to:

Field Services
National Center for School & College Television
Box A
Bloomington, Indiana 47401

Tel: 812 337-8905

Rental Information

1. ROUNDABOUT is available on a rental basis of $15.00 per lesson for use only as part of the instructional programs of educational agencies.
2. Fees apply to all forms of electronic transmission including open-circuit, closed-circuit, and 2500 mc ITFS facilities.
3. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available upon request.
4. Fees for network transmission are also available on request.
5. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.
6. The telecourse is available either in its 52-lesson format or in multiples of separate units.
7. The Teacher's Manual is available from NCSCT at 45 cents per copy.

ROUNDABOUT:
Produced by WETA-TV, Washington, D. C., under a contract from the United States Office of Education.

Available from NCSCT

The National Center for School and College Television (NCSCT) serves all institutions concerned with the use of television in education. NCSCT makes available recorded lessons of the highest quality for preschool, elementary secondary, college, extension, industrial, and continuing professional education.

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NCSCT

TELECOURSE
CATALOG
1967

Telecourses available from

NCSCT . . . The National Center for School and College Television
Box A
Bloomington, Indiana 47401

NCSCT

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GENERAL INFORMATION

This catalog provides information about telecourses now available from the National Center for School and College Television. The catalog organizes available telecourses by grade level and contains a subject index (page 00) as a cross reference.

The section "Telecourse Fact Sheets" at the back of the catalog is designed for individual course fact sheets, the most comprehensive source of information about NCSCT materials. The fact sheets are arranged in the same order as in the catalog, alphabetically by grade level. For several courses listed in this catalog, advance information sheets replace the fact sheets. As soon as fact sheets are available, they will be sent to you.

Additional courses are continually being added to the NCSCT offering. Information about these courses will be sent to those who receive this catalog, or will be furnished upon request.

All organizations and individuals are urged to place catalogs where they will be available to the largest possible number of interested persons. Additional copies of the catalog will be provided free of charge upon request.

GRADE LEVEL ASSIGNMENT

While each telecourse in this catalog has been designed for a specific grade level, much of the material can be used at several grade levels.

Throughout this catalog, the general range for which the materials are intended is listed as preschool, kindergarten, primary, intermediate, junior high school, and senior high school. The grade designations following these more general grade level listings indicate that the materials have been successfully used for that specific grade.

Thus, the caption "A telecourse of eleven 15-minute videotape lessons in science and health for primary grades (grades one and two)" indicates that the materials probably have application from kindergarten through grade three, but have been successfully used thus far only in grades one and two.

Of course, the grade level to be served by any of this material depends completely on users.

TEACHER'S MANUALS

For all of its available telecourses, NCSCT offers *Teacher's Manuals*. Copies of the *Manuals* are available at cost from NCSCT or, in some instances, from the telecourse producers.

Payment for additional *Manuals* must accompany all orders for ten or fewer copies. The cost of and further information about *Teacher's Manuals* can be found within each telecourse *Fact Sheet*.

PREVIEW MATERIALS

Preview materials consist of representative lessons on 16mm film and one set of all related printed materials. They are available upon request at no charge to those interested in considering the in-school television use of courses. Requests should be sent to:

FIELD SERVICES
NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION
BOX A
BLOOMINGTON, INDIANA 47401

RENTAL INFORMATION

1. These materials are available on a rental basis for use only as part of the regular instructional television activities of schools and colleges.
2. Fees apply to all forms of electronic transmission, including open-circuit, closed-circuit, and 2500 mhz ITFS facilities.
3. Fees are based on the total enrollment of ALL schools participating in the general school service.
4. The telecourse fee provides for unlimited use of each lesson during one calendar week. Fees for delayed replay are available on request.
5. Fees for network transmission are also available on request.
6. Fees do not include outgoing or return transportation charges. There is a standard charge of 50 cents for each lesson shipped from Bloomington, Indiana.

RENTAL RATES

Rental rates for each of the courses listed are contained in the fact sheets and advance information sheets that accompany this catalog.

TAPE FORMAT AVAILABILITY

Lessons are recorded on videotape at 7½ and 15 i.p.s. for all models of *quadraplex* recorders and can be provided for most *helical* scan recorders.

preschool

ROUNDABOUT

Fifty-two 15-minute videotape lessons to enhance the educational experience of disadvantaged preschool children.

Assists a child in coping with his emotional reactions to natural events and provides experiences intended to stimulate a child's imagination and creative expression, to heighten his perception, and to broaden his world. Focuses on scientific and mathematical concepts, creative arts, social studies, and interpersonal relations and social development.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

Drums

Shows that rhythmic sounds can be made by beating such things as a plastic pail or a cereal box like a drum. Demonstrates that sounds differ depending upon the size and material of the object used as a drum and depending upon the manner in which it is played.

Carpenter

Demonstrates how a carpenter uses his various tools in the creation of a toy.

Baby

Points out that the amount of parental attention a baby receives is due to the baby's dependence on others. Explains that as a baby learns and develops skills, his independence increases and he requires less parental attention.

THE TEACHER

One of ROUNDABOUT'S many innovations is the use of a sustaining figure who is neither teacher nor actor. Milton Rooks plays the part of "Jim Jeffers," the sustaining on-camera personality. The role of "Jim" is developed as that of an ordinary fellow who lives down the block or is an uncle or an older brother.

THE PROJECT

This unique telecourse is the result of a United States Office of Education-sponsored project to demonstrate the production and use of televised material for enhancing the educational experience of disadvantaged preschool children. The lessons introduce into the daily school schedule a variety of experiences and activities that are highly desirable but cannot be produced in the classroom with their traditional store of teaching resources.

THE PROJECT DIRECTOR

Dr. Rose Mukerji, well-known author and educator, is project director, producer, and principal author. To head up the project at WETA-TV in Washington, D.C., Dr. Mukerji took a one-year leave of absence from Brooklyn College of the City University of New York where she is assistant professor of early childhood education.

PRODUCING AGENCY

WETA-TV, Washington, D.C., under a contract from the United States Office of Education.

elementary education

CONSULTANT

Mrs. Ada B. Litchfield has eleven years experience as a first grade teacher and two years experience as an editor of primary level health textbooks. She has also written and published children's stories.

PRODUCING AGENCIES

The 21 Inch Classroom and WGBH-TV, Boston, Mass.

ALL ABOUT YOU

Eleven 15-minute videotape lessons in science and health for the primary grades (grades one and two).

Stirs the curiosity of and explores with children the wonders of their minds and bodies and the reasons for good health care. Makes each child an active participant in each lesson by introducing science instruction through the use of models, demonstrations, film clips, simple drawings, and puppets. Supports classroom efforts in urging good health care.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

2. *Two Hundred Bones*

Introduces "Mr. Bones," a plastic model of the human skeleton, who displays the marvelous construction which helps support and give shape to the body. Shows, through the antics of a rag doll, how the spine is arranged to give support and flexibility. Illustrates, by comparing a chain of wooden spools and a stiff rod, the advantages of a backbone of many parts. Studies the rib cage and skull and reviews how the two bony structures protect and support some of the soft organs of the body.

8. *Getting the Message*

Explores the world of the senses through simple audio and visual experiments. Reviews the function of the five senses. Reviews the function of the brain.

9. *You and Your Feelings*

Explains emotions and considering the feelings of other people. Indicates that as children grow up their feelings grow up too. Introduces a character puppet named Muggsy.

THE TEACHER

Mrs. Louise McNamara, former acting director of The 21 Inch Classroom and elementary science teacher in Massachusetts, is the television teacher. She has served as a science editor for Ginn & Co., and is now a consultant to the children's library of Boston's Museum of Science.

LET'S INVESTIGATE

Fifteen 15-minute videotape lessons in science for the intermediate grades (grade four).

Places the responsibility for learning upon the student by involving him in real-life problems. Acquaints the student with some of the basic phenomena of the physical world by presenting problems to be thought through and solved using the scientific method of observing a phenomenon, forming a hypothesis, and verifying the hypothesis by testing and measuring.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

2. *Gravity and Bounce*

Shows that gravity causes things to fall and that light and heavy objects fall at the same speed. Demonstrates the effect of variables on the impact of the falling body and the resulting bounce of that object. Points out the difficulty of isolating the effect of a particular variable when several variables are present.

4. *Shadow*

Illustrates that a shadow is made when an object prevents light from falling on a surface. Examines how the relationship of surface, direction of light source, and the shape and size of the object affect the size and shape of the shadow.

6. *Balance*

Explores the concept of balance and relates the concept to everyday events and activities. Explains the reason for an object falling over when tipped beyond a certain point. Defines such terms as 'center of balance' and 'point of support' and shows how such positions are located.

THE TEACHER

Gene Gray, who for the past six years has been a science consultant for kindergarten through the sixth grade in Newton, Mass., spent seven years as a classroom teacher, six of them with fifth and sixth graders. A television teacher for five years, he is also the television teacher for NCSCT's sixth grade science telecourse, THE WORLD OF CHANGE.

CONSULTANT

Mr. Alan Aymes has been for the last six years coordinator of Elementary Science for the Waltham Public Schools, Waltham, Mass., and a member of the Science Advisory Committee, The 21 Inch Classroom, Boston, Mass. Mr. Aymes earned his A.B. at Harvard University and his M.Ed. in Elementary Education at Boston University.

PRODUCING AGENCIES

WGBH-TV and The 21 Inch Classroom, Boston, Mass.

MEET THE ARTS

Seven 30-minute videotape lessons for the intermediate grades (grade five).

Music, theater, dance, printing, sculpture, literature, photography, and architecture—these are the languages of art and the stuff of this course. Using a variety of examples from the arts, including performance, this course introduces the components of art—rhythm, shape, mood, form, and content. MEET THE ARTS introduces children to the arts as a source of enjoyment and stimulation and demonstrates how much art can communicate to them.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

2. *Shape*

Presents notion that everything has a shape. Considers straight lines and curves, using a variety of architectural, graphic, and musical examples. Shows how artists employ shapes to present the world more clearly or from a new angle.

4. *Form*

Considers that a work of art is made up of many elements organized by the artist into a form.

5. *Content*

Explores what the artist tells us and why. Considers the artist's intention and suggests how he might go about expressing it. Shows that there are many levels of awareness to be reached through content.

THE TEACHER

Miss Sonya Hamlin is the television teacher. She received B.S. and M.A. degrees in education from New York University, and has done additional graduate study at Julliard School of Music, Dalcroze School of Eurythmics, Colorado College, Connecticut College for Women and professional study with Martha Graham, Doris Humphrey, Hanya Holm, Jose Limon, and Carmalita Maracci. In the field of education, Miss Hamlin has been the Director of Dance department of Georgia State College for Women, City College of New York, University of New York, University of New Hampshire, and Radcliffe College; has taught extension courses in Art History for Brandeis University; and is a member of the Speakers Committee-Museum of Fine Arts in Boston, Mass. Miss Hamlin has been choreographer and performer for many school and college plays, operettas, and dance concerts. For 2½ years she was creator, producer, writer, and performer for two monthly series, *Come and Meet the Arts* and *Folkways* for station WHDH-TV, Boston, Mass.

PRODUCING AGENCIES

The 21 Inch Classroom and WGBH-TV, Boston, Massachusetts.

SING, CHILDREN, SING

Fifteen 15-minute videotape lessons in music for the primary grades (grades two and three).

Emphasizes the development of musical attitudes by providing an awareness of tone quality, pitch discrimination, rhythm sensitivity, rhythm movement, and characteristics of folk dance. Provides experiences in music not ordinarily available in the classroom. Demonstrates how various musical instruments are played. Involves children in singing and responding to rhythms and seeks to stimulate creative expression.

The *Teacher's Manual* is available from The 21 Inch Classroom.

SOME LESSON DESCRIPTIONS

1. *Tinga Layo*

Emphasizes proper breathing. Uses the guitar as an introduction to the string family of instruments. Introduces *Tinga Layo,* the song, and Tinga Layo, the donkey.

4. *This Old Man*

Introduces the major scale with the aid of step bells. Presents the song *This Old Man* and the folk dance *Seven Jumps.*

9. *Three White Gulls*

Demonstrates the principles underlying the playing of wind instruments through the recorder. Presents the songs *Three White Gulls* and *Cuckoo.*

THE TEACHER

Tony Saletan has had wide experience both as a music consultant and music teacher and as a television performer. For five years he was music consultant for all grades of the Newton, Massachusetts, public schools. For three years he was music consultant for the Harvard University Pre-School. For two years he was a music instructor at Tufts University. Mr. Saletan, who holds a Bachelor of Arts degree and a Master of Arts in Teaching degree from Harvard University, has appeared as a host on National Educational Television's special series for children, "What's New." For two years he represented the United States at concerts and in teaching music techniques and materials in Asia and Africa. Now, in Boston, he performs for *Young Audiences, Inc.*

PRODUCING AGENCIES

The 21 Inch Classroom and WGBH-TV, Boston, Mass.

STEPPING INTO RHYTHM

Thirty 15-minute videotape lessons in music for kindergarten and primary grades (grade one).

Provides a variety of guided musical activities to assist a child develop musical taste and encourages self-expression and a creative response to music. Helps a child discover what music can offer him personally and relates music to other experiences and subjects.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

1. *Let's Get Acquainted*

Starts children off with singing and rhythmic responses (*I Like to Sing*).

4. *Funny Little Squirrel*

Encourages creative dramatization. Teaches up and down notation and more rhythmic response. (*Funny Little Squirrel*).

10. *The Trumpet and The Tuba*

Presents bass instruments. Reviews high-low and small-large. (*Playing in the Band,* and *March of the Toy Soldiers*).

THE TEACHER

Brenda Veal, a graduate of Baldwin Wallace Conservatory of Music, had been teaching in the Cleveland Public Schools since 1961. Mrs. Veal is a member of the Cleveland Orchestra Choir, directed by Robert Shaw, a demonstration teacher for Music Education in the Cleveland School system, and director of Youth Choirs for Lane Metropolitan CMC Church. She is currently on release to station WVIZ-TV as a music teacher.

CONSULTANTS

Stuart J. Ling, professor and director of music education at Wooster College in Ohio, is chairman of the curriculum committee of the Ohio Music Educators Association. Dr. Ling, who holds a Ph.D. in Music Education from Syracuse University, has published many articles in professional journals, including *Music Educators Journal* and *Triad*.

Betty Jane Lahman is an elementary music specialist in the Shaker Heights, Ohio, Public Schools. Mrs. Lahman has been an elementary music supervisor, a high school music teacher, and an instrumental supervisor.

Judith Willour is a supervisor of elementary music in the East Cleveland, Ohio, City Schools. A member of the Youngstown, Ohio, Symphony Orchestra, she is currently recording a music series for third graders.

PRODUCING AGENCY

WVIZ-TV, Cleveland, Ohio.

TELL ME A STORY

Thirty 15-minute videotape lessons for kindergarten and primary grades.

Introduces group listening and features stories from folklore of the world and from the classic storytellers. Awakens the student's imagination while providing a feeling for logic. Builds and enhances vocabularies and broadens a child's horizon.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

8. *The Shoemaker and the Elves*

The old shoemaker and his wife reward the Little People who have come to their aid in this story by the Brothers Grimm.

17. *Jack and the Bean Stalk*

In this version of the old English folk tale, Jack's quick climb to fame and fortune is done on his own magical bean stalk, and thus the fortune at the top is rightfully his.

24. *The Elephant's Child*

A brand-new elephant goes to the great grey-green greasy Limpopo River, and there he gets a new nose in this story first told by Rudyard Kipling.

THE STORYTELLER

Margaret Hodges has been using educational television to enrich the lives of countless boys and girls for the past 12 years. She is a story specialist in the Compensatory Education Department, Pittsburgh Public Schools, and a lecturer in *Storytelling* at the Graduate School of Library and Information Services, the University of Pittsburgh. She is a well-known author of children's stories, and her story, "The Wave," was runner-up for the Caldecott Award in 1964. She holds a Master of Library Science degree from the Carnegie Institute of Technology.

PRODUCING AGENCY

WQED School Services, Pittsburgh, Pa.

THE WORDSMITH

Twenty-eight 20-minute videotape lessons in language arts for the intermediate and junior high school grades (grades five and six).

Introduces the idea of work-roots and word-families, arouses the student's curiosity about words, and sharpens his awareness of language. Introduces new areas of thought and partially introduces foreign languages. Strives to keep the student's vocabulary increasing by showing the student that a complete knowledge of the words he already knows is the key to learning those he does not.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

3. *Word-Cells From The Body I*

Shows how the importance of the human body is reflected in our language through the many words derived from word-cells which name physical parts.

7. *Air and Space*

Points out that the "new" language of space relies entirely on elements which are centuries old.

14. *The Calendar*

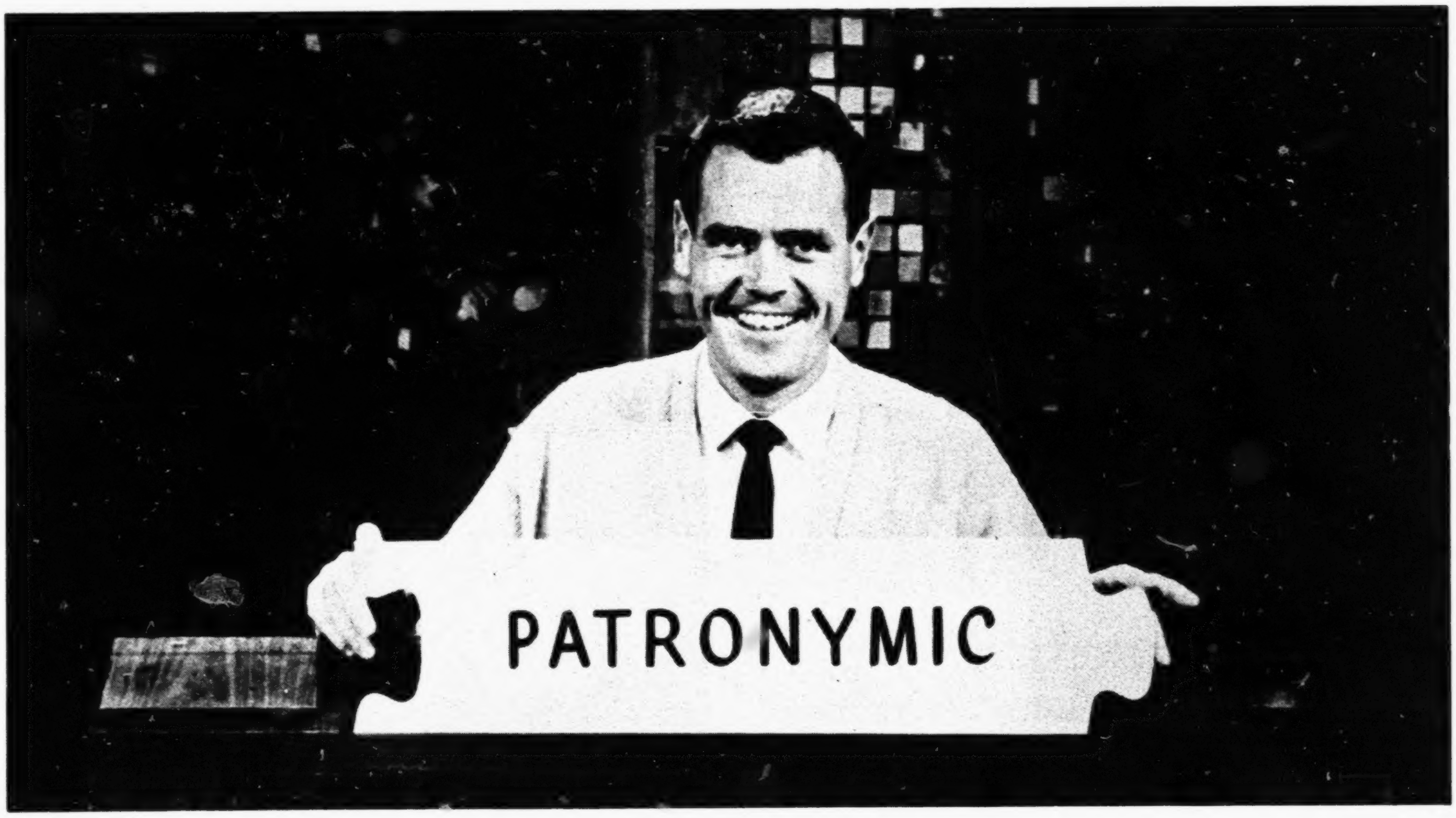
Discusses the stories behind the names and words associated with the calendar.

THE TEACHER

Robert W. L. Smith has been studying and teaching Etymology for 13 years. A graduate of the University of Chicago with an A.B. degree and Gonzaga University with an M.A. degree, he has taught English, philosophy, psychology, education, Latin, and mathematics from elementary to postgraduate levels. At the time of the production of *The WordSmith,* he was associate professor of English at the University of Santa Clara in California.

PRODUCING AGENCIES

KQED and Bay Region Instructional Television for Education, San Francisco, California.



THE WORLD OF CHANGE

Twenty 20-minute videotape lessons in science for the intermediate grades (grade six).

Teaches certain basic principles concerning some characteristics of matter that can be applied in several different scientific disciplines. Presents science as an organized body of interconnected knowledge systematically obtained in a specific way to assume maximum validity. Gives the student an opportunity to think and work through problems by use of the scientific method. Indicates some of the problems involved in obtaining reliable knowledge while giving the student a small part of the content and method of science.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

3. *Motion*

Introduces the concept of motion. Stresses the importance of a fixed reference point. Demonstrates how an object in motion may appear to change size and shape.

7. *Liquids*

Demonstrates that different liquids—in this case, carbon tetrachloride, water, and mineral oil—separate when placed in the same cylinder and that one liquid floats on another. Determines that liquids differ in density. Examines the concept of density.

9. *Density of Liquids*

Illustrates that liquids of different temperature are different in density. Shows that as water is heated, its particles move further apart. Determines that differences in density cause convection currents.

THE TEACHER

Gene Gray, who for the past six years has been a science consultant for kindergarten through the sixth grade in Newton, Mass., spent seven years as a classroom teacher, six of them with fifth and sixth graders. Mr. Gray is also a teacher in Newton's Field Science Program, in which he and one or two other teachers work with Newton sixth graders on special science field problems in a New Hampshire camp. A television teacher for four years, he has taught a second grade science telecourse and one other sixth grade science telecourse.

PRODUCING AGENCIES

The 21 Inch Classroom and WGBH-TV, Boston, Mass.

YOU AND EYE

Thirty 20-minute videotape lessons in art for intermediate and junior high school grades (grades five and six).

This course is designed to enable the student to discover himself and materials with which he can express himself. The aim of the lessons is to make the student aware of his environment. The materials are infinite, the subjects unlimited, for the stress is on range: modern to ancient, architecture to painting, sculpture to textiles, photography to typography. The format is discussion and demonstration with extensive use of visual materials—films, slides, tapes, visits to artists' studios.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

6. *The Eyes Have It*

Expands the word eye (aye, I). Examines the eye from the outside as well as from the inside. Shows what the eye sees. Presents optical illusions and op art.

9. *Toys and Stuff*

Discusses gifts that children can make. Visits a toymaker to look at old and new toys. Demonstrates ways to print wrapping paper and to gift wrap.

16. *Wild Animals*

Looks at wild animals. Discusses animal shape and animal environment. Shows how the material selected helps create personality in an animal.

THE TEACHER

Mrs. Linda Schmid received her B.A. degree from the University of California at Los Angeles and her M.F.A. degree from the University of Texas. Mrs. Schmid, currently teaching High School at the Urban School in San Francisco, taught Junior High School in Van Nuys, California for 3½ years and Junior High and elementary grades in Austin, Texas for 2½ years. She has developed an art program for the gifted, written and produced a Junior High Art telecourse for the Austin-San Antonio public schools, and recently has had her Children's Art series released nationally by ETS.

PRODUCING AGENCIES

KQED and Bay Region Instructional Television for Education, San Francisco, California.

secondary education

ACCENT ON MUSIC

Eight 30-minute videotape lessons of concerts and commentary for the intermediate grades through senior high school (grades five through 10).

Presents performances, commentary, and discussion not ordinarily available in the classroom. Broadens basic musical knowledge and increases understanding of the pleasure found by musicians in making music. Leads students to explore related fields and to undertake some individual or group research in music.

The *Teacher's Manual* is available from The 21 Inch Classroom.

SOME LESSON DESCRIPTIONS

1. *The Symphony*

Introduces the structure of the symphony orchestra, using the Greater Boston Youth Symphony. Demonstrates how, through rehearsal the various parts are combined into a complete musical unit. Presents a rehearsal of Kenneth Wright's *Dance Mosaic,* written especially for youth symphonies, and finished performance of Saint-Saen's *Rondo Cappriccioso.*

3. *Jazz*

Examines with Father Norman J. O'Connor the origin and development of jazz and its relationship to Negro religious music. Presents the Herb Pomeroy Quintet playing *Sweet Sue* from its basic form through a musical gambit of slow and fast jazz tempos, Afro-Cuban, slow dance step style, rock and roll, and free improvisation.

4. *Ancient Instruments*

Demonstrates ancient instruments played by members of the Camerata of the Boston Museum of Fine Arts. Fits the performance into a context of related historical incidents and anecdotes, and organizes them into three sections dealing with strings, brass, and reed instruments. Presents several early orchestral selections by the Camerata, as well as a lute-accompanied solo of *Greensleeves.*

THE TEACHER-HOST

Dr. Edward Gilday, chairman of the music department at Lowell State Teachers College in Lowell Mass., and conductor of the Handel and Haydn Society of Boston, serves as host and teacher for thi telecourse.

PRODUCING AGENCIES

The 21 Inch Classroom and WGBH-TV, Boston Mass.

THE COMMUNISTS

Eight 20-minute lessons on videotape for the senior high school.

This revision of a course produced in 1962 to meet a California requirement presents communism in a straightforward and dispassionate way. It provides a basis for assessing the communist power system as it exists today. Contrasts between communism and democratic capitalism or free enterprise are implied rather than stated.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

2. *The theory of Communism*

Explores what communism really is—and what it is not. Examines communism's original aims and how they are supposed to be achieved. Investigates how Twentieth Century communist leaders have departed from some of Marx's original ideas as well as the results achieved by such departures.

4. *The Soviet Economic System*

Explores the economic theories and practices of communism. Examines the success of these theories and practices from 1917 through the mid-sixties. Measures the efficiency of the communist economic system.

7. *China and the Far East*

Examines the development of communism in the Far East, with emphasis on China. Details several of the key reasons why China fell to communism in 1949. Considers the communist history of Mongolia, the Korean Peninsula, Tibet, and Indo-China.

THE TEACHER

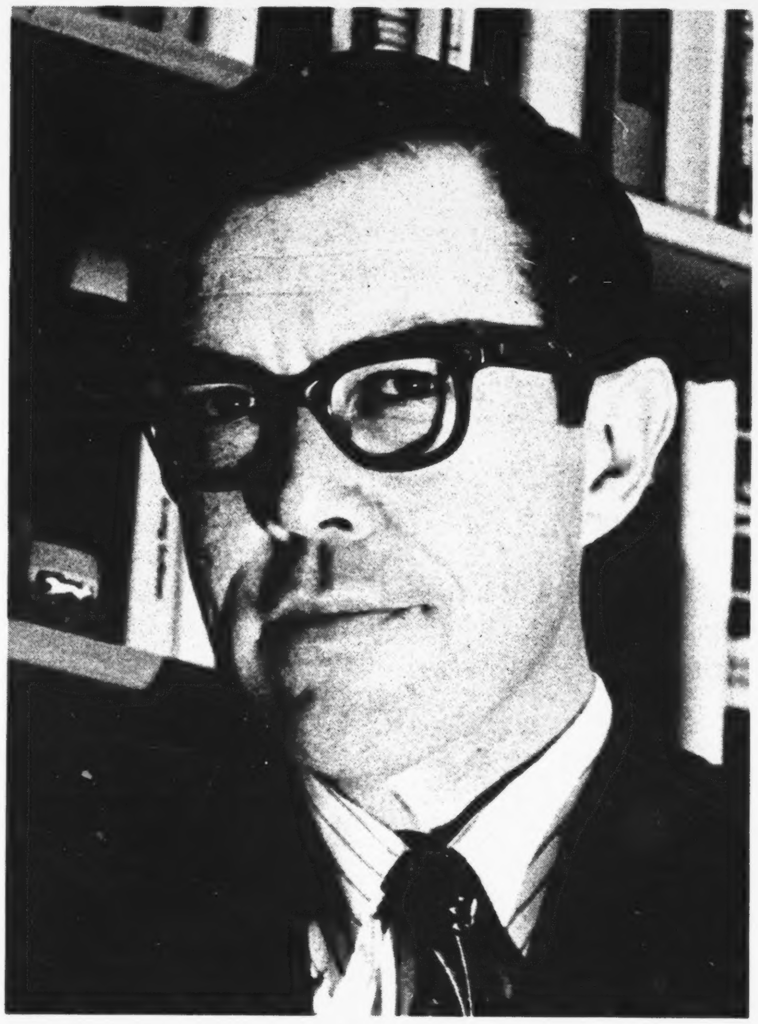
The television teacher is Mr. Lee Nichols, a former commentator for NBC-TV Network News. He is a Special Consultant to the Governor of California and a legislative consultant to the Assembly of the State of California. Mr. Nichols is currently engaged in research and writing on problems of the government.

CONSULTANT

The consultant in the planning and production of *The Communists* is Dr. Roger Swearingen, Director of the Research Institute on Communist Strategy and Propaganda, University of Southern California. He is the author of several works on communism including "The World of Communism."

PRODUCING AGENCY

KVIE, Sacramento, California.



in-service teacher education

ENGLISH—FACT AND FANCY

Fifteen 30-minute videotape programs designed to improve specifically English instruction and generally techniques in guiding communications problems encountered in all classrooms.

Presents the more comprehensive behavioral view of language. Examines English as a social and behavioral phenomenon rather than as an abstract, impersonal system devised for the expression of thought. Develops attitudes about English and English instruction that accord with mid-Twentieth Century knowledge of languages.

The *Teacher's Manual* is available from NCSCT.

SOME LESSON DESCRIPTIONS

2. *Language as a Behavioral Phenomenon*

Demonstrates that talking and writing are muscular activities, largely the result of unconscious and conventional habit. Examines the role of convention in language. Outlines areas to which rationalized appeals are made to defend linguistic preferences.

6. *"Correctness" in Language*

Amplifies the necessity of making choices among competing phonetic, lexical, syntactic conventions and of adopting or ignoring suggested refinements in language. Points out that the speaker or writer is judged by his choices.

12. *A Communication Model*

Considers the ways a message is delivered (speech, paraspeech, kinesics, writing, and other signalling systems) and the different ways a message can be received or perceived. Explores the role of the perceiver and demonstrates that the efficient message-deliverer must take every possible step to keep the perceiver's attention.

THE TEACHER

James C. Bostain, currently serving as a scientific linguist at the Foreign Service Institute of the State Department in Washington, D.C., is a noted lecturer on linguistic and anthropological subjects as well as communications problems. At the Foreign Service Institute, he is supervisor of instruction in Burmese and has also worked with French, German, Japanese, and Vietnamese. He graduated Phi Beta Kappa from Oberlin College and earned the A.M. in Linguistics at Yale University. He received a local Emmy Award from the Academy of Television Arts and Sciences in 1965 for *English—Fact and Fancy.*

PRODUCING AGENCY

WETA-TV, Washington, D.C.

PATHWAYS TO DISCOVERING MUSIC

Four 30-minute videotape programs in music for elementary teachers.

Illustrates a three-phase pattern recommended for use in teaching music in elementary schools: 1) experiencing music; 2) analyzing the music to discover significant detail; and 3) experiencing the music with awareness of the detail discovered. Suggests techniques concerning the organization of the music program in the elementary school.

The *Teacher's Manual* is available from NCSCT.

A LESSON DESCRIPTION

1. *Discovery Through Listening*

Examines the process of developing listening skills and points out a pattern for teaching of listening. Demonstrates an approach to listening with "Barcarolle" from Offenbach's *Tale of Hoffmann.*

THE TEACHER

Dr. Charles Leonhard, professor of music at the University of Illinois since 1951, is a nationally prominent author and music instructor. The author of several books on music, Dr. Leonhard received his B.M. degree from the University of Oklahoma and M.A. and Ed.D. degrees from Columbia University, New York City.

CONSULTANT

The consultant for the series is Dr. Frank Crockett, the state supervisor of music for the Georgia State Department of Education. Dr. Crockett has been prominent in the field of music education since his graduation from the Juilliard School of Music in New York City with a B.S. degree. He also holds an Ed.D. degree in Music Education from the University of Illinois.

PRODUCING AGENCY

The Georgia Educational Television Network, a division of the State of Georgia Department of Education.

SETS AND SYSTEMS

Fifteen 30-minute videotape programs in mathematics for elementary teachers.

Helps elementary school teachers improve their teaching of mathematics by organizing information into structured, logical systems. Creates a better understanding of the new approach to mathematics instruction and stresses major concepts and underlying principles of sets and systems as taught in contemporary mathematics.

A *Teacher's Manual* is available from the Eastern Educational Network.

SOME LESSON DESCRIPTIONS

1. *Numbers and Sets*

Introduces and develops the concept of numbers. Compares the set of natural numbers and the set of whole numbers.

8. *Think!!*

Reviews the idea of the system of whole numbers and relates them to teaching in the elementary classroom.

15. *Numbers and Points*

Establishes an association between the elements of sets of numbers and sets of points. Develops the number line as a visual representation of this association. Uses the number line to help visualize the characteristics of elements of sets of numbers and to demonstrate the properties of operations with numbers. Summarizes the basic characteristics of a mathematical system.

THE TEACHER

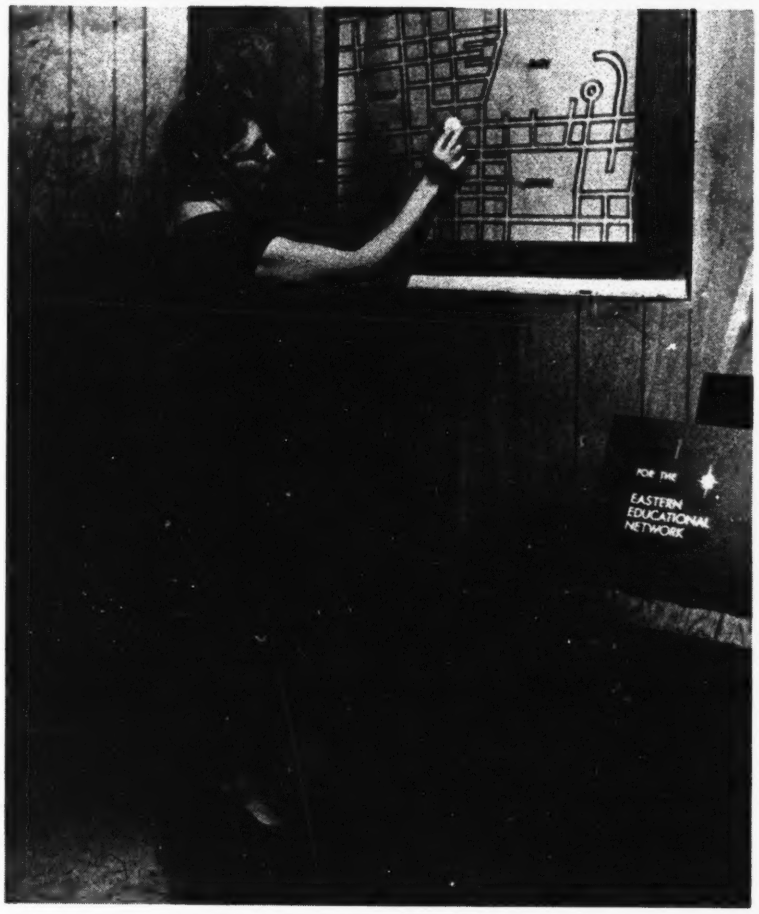
Mrs. Elizabeth Boisclair is a specialist in mathematics for elementary schools in the District of Columbia Schools. Recently, she has been responsible for planning and directing an in-service program in mathematics for elementary school teachers and principals in Washington, D.C. Mrs. Boisclair is a member of the National Council of Teachers of Mathematics.

CONSULTANT

Miss Jane Hill, assistant director of Mathematics for the District of Columbia Public Schools, is a former mathematics teacher in secondary schools. She has been a guiding force in workshops in modern mathematics for teachers in New Jersey, Colorado, Virginia, and Maryland. Miss Hill is a member of the National Council of Teachers of Mathematics.

PRODUCING AGENCY

WETA-TV, Washington, D.C., for the Eastern Educational Network.



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